APPENDIX C: Hydrologic Assessment

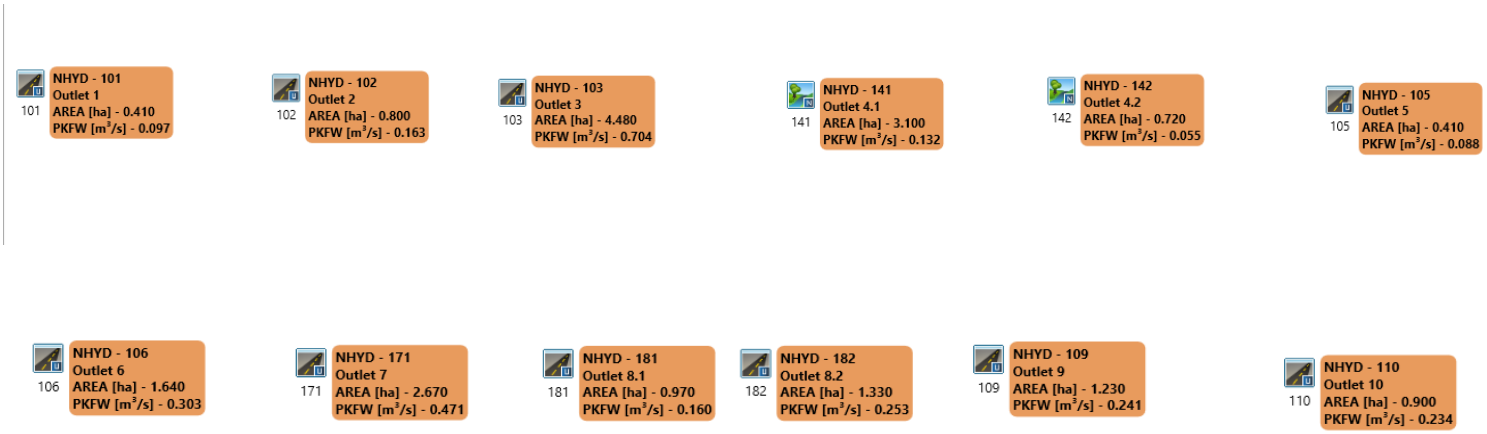
APPENDIX C1

EXISTING

Summary of VO2 Parameters

	Catchment ID	Hydrograph Classification	T_P Method	Total Drainage Area (ha)	IA (mm)	Weighted Runoff Coeff.	Modified CN Value	Time to Peak, T_P (hr)	Percent Imperv. (%)
ROW	101	STANDHYD	-	0.41	1.50	0.65	71	-	54
	102	STANDHYD	-	0.80	1.50	0.59	71	-	44
	103	STANDHYD	-	4.48	1.50	0.51	63	-	32
	141	NASHYD	Airport	3.10	5.00	0.21	61	0.52	0
	142	NASHYD	Airport	0.72	5.00	0.22	58	0.21	5
	105	STANDHYD	-	0.41	1.50	0.60	58	-	56
	106	STANDHYD	-	1.64	1.50	0.53	58	-	45
	171	STANDHYD	-	2.67	1.50	0.50	56	-	43
	181a	STANDHYD	-	0.97	1.50	0.00	58	-	37
	182b	STANDHYD	-	1.33	1.50	0.54	58	-	47
	109	STANDHYD	-	1.23	1.50	0.55	58	-	49
	110	STANDHYD	-	0.90	1.50	0.76	79	-	59
External	1	STANDHYD	-	19.32	1.50	0.51	63	-	31
	2	NASHYD	Airport	2.01	5.00	0.30	64	0.21	12
	3	NASHYD	Airport	4.44	5.00	0.22	58	0.53	6
	4	STANDHYD	-	16.90	1.50	0.29	43	-	21
	5	NASHYD	Airport	93.22	5.00	0.22	53	1.29	12
	6	STANDHYD	-	8.77	1.50	0.65	58	-	64

VO Schematic - 100Yr - 12hr - 15min SCS Type II



VO DETAIL OUTPUT

****

** SIMULATION:005yr 12hr15min SCS Type II (MTO) **

****

| READ STORM | Filename: C:\Users\RObeid\AppD
| ata\Local\Temp\
| 2dc9d38f-98e2-4608-97a8-64e21145182b\cf7cd77a
| Ptotal= 53.02mm | Comments: 005yr 12hr15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	2.12	6.50	9.54	9.75	1.86
0.25	1.33	3.50	2.12	6.75	4.24	10.00	1.86
0.50	1.33	3.75	2.12	7.00	4.24	10.25	1.06
0.75	1.33	4.00	2.12	7.25	3.18	10.50	1.06
1.00	1.33	4.25	3.18	7.50	3.18	10.75	1.06
1.25	1.33	4.50	3.18	7.75	3.18	11.00	1.06
1.50	1.33	4.75	4.24	8.00	3.18	11.25	1.06
1.75	1.33	5.00	4.24	8.25	1.86	11.50	1.06
2.00	1.33	5.25	6.36	8.50	1.86	11.75	1.06
2.25	1.59	5.50	6.36	8.75	1.86	12.00	1.06
2.50	1.59	5.75	25.45	9.00	1.86		
2.75	1.59	6.00	69.99	9.25	1.86		
3.00	1.59	6.25	9.54	9.50	1.86		

CALIB
STANDHYD (0103) | Area (ha)= 4.48
ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.43	3.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	172.82	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06

1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	19.61
over (min)	5.00	20.00
Storage Coeff. (min)=	(ii) 4.09	17.63 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.24	0.06

TOTALS

PEAK FLOW (cms)=	0.27	0.09	0.334 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	13.23	25.64
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.25	0.48

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 63.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0105)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.23	0.18
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	16.61	
over (min)	5.00	20.00	
Storage Coeff. (min)=	2.00 (ii)	16.47 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.31	0.06	
		TOTALS	
PEAK FLOW (cms)=	0.04	0.00	0.048 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	11.27	34.07
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.21	0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0106)	Area (ha)= 1.64
ID= 1 DT= 5.0 min	Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.74	0.90
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.9916.61

over (min) 5.00 20.00

Storage Coeff. (min)= 3.03 (ii) 17.50 (ii)

Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.27 0.06

TOTALS

PEAK FLOW (cms)= 0.14 0.02 0.158 (iii)

TIME TO PEAK (hrs)= 6.25 6.42 6.25

RUNOFF VOLUME (mm)= 52.02 11.27 29.60

TOTAL RAINFALL (mm)= 53.02 53.02 53.02

RUNOFF COEFFICIENT = 0.98 0.21 0.56

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0171) | Area (ha)= 2.67
ID= 1 DT= 5.0 min | Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.15	1.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06

1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	15.54	
over (min)	5.00	20.00	
Storage Coeff. (min)=	3.50 (ii)	18.37 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.26	0.06	
		TOTALS	
PEAK FLOW (cms)=	0.22	0.03	0.244 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	10.57	28.39
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.20	0.54

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 56.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (1722)	Area (ha)= 1.33
ID= 1 DT= 5.0 min	Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86

```
0.500   1.33 |  3.583  2.12 |  6.667  9.54 |   9.75  1.86
0.583   1.33 |  3.667  2.12 |  6.750  9.54 |   9.83  1.86
0.667   1.33 |  3.750  2.12 |  6.833  4.24 |  9.92   1.86
0.750   1.33 |  3.833  2.12 |  6.917  4.24 |  10.00  1.86
0.833   1.33 |  3.917  2.12 |  7.000  4.24 |  10.08  1.86
0.917   1.33 |  4.000  2.12 |  7.083  4.24 |  10.17  1.86
1.000   1.33 |  4.083  2.12 |  7.167  4.24 |  10.25  1.86
1.083   1.33 |  4.167  2.12 |  7.250  4.24 |  10.33  1.06
1.167   1.33 |  4.250  2.12 |  7.333  3.18 |  10.42  1.06
1.250   1.33 |  4.333  3.18 |  7.417  3.18 |  10.50  1.06
1.333   1.33 |  4.417  3.18 |  7.500  3.18 |  10.58  1.06
1.417   1.33 |  4.500  3.18 |  7.583  3.18 |  10.67  1.06
1.500   1.33 |  4.583  3.18 | 7.667   3.18 |  10.75  1.06
1.583   1.33 |  4.667  3.18 |  7.750  3.18 |  10.83  1.06
1.667   1.33 |  4.750  3.18 |  7.833  3.18 |  10.92  1.06
1.750   1.33 |  4.833  4.24 |  7.917  3.18 | 11.00   1.06
1.833   1.33 |  4.917  4.24 |  8.000  3.18 | 11.08   1.06
1.917   1.33 |  5.000  4.24 |  8.083  3.18 | 11.17   1.06
2.000   1.33 |  5.083  4.24 |  8.167  3.18 | 11.25   1.06
2.083   1.33 |  5.167  4.24 |  8.250  3.18 | 11.33   1.06
2.167   1.33 |  5.250  4.24 |  8.333  1.86 | 11.42   1.06
2.250   1.33 |  5.333  6.36 |  8.417  1.86 | 11.50   1.06
2.333   1.59 |  5.417  6.36 |  8.500  1.86 | 11.58   1.06
2.417   1.59 |  5.500  6.36 |  8.583  1.86 | 11.67   1.06
2.500   1.59 |  5.583  6.36 |  8.667  1.86 | 11.75   1.06
2.583   1.59 |  5.667  6.36 |  8.750  1.86 | 11.83   1.06
2.667   1.59 |  5.750  6.36 |  8.833  1.86 | 11.92   1.06
2.750   1.59 |  5.833 25.45 | 8.917   1.86 |  12.00   1.06
2.833   1.59 |  5.917 25.45 | 9.000   1.86 | 12.08    1.06
2.917   1.59 |  6.000 25.45 | 9.083   1.86 |  12.17   1.06
3.000   1.59 |  6.083 69.99 | 9.167   1.86 |  12.25   1.06
3.083   1.59 |  6.167 69.99 | 9.250   1.86 |

  Max.Eff.Inten.(mm/hr)=          69.9916.61
        over (min)                5.0020.00
  Storage Coeff.  (min)=     2.84 (ii)  17.31 (ii)
  Unit Hyd. Tpeak (min)=            5.0020.00
  Unit Hyd. peak  (cms)=     0.28             0.06
                                    *TOTALS*
  PEAK FLOW      (cms)=             0.120.02        0.133 (iii)
  TIME TO PEAK   (hrs)=             6.256.42        6.25
  RUNOFF VOLUME  (mm)=     52.02     11.27        30.42
  TOTAL RAINFALL (mm)=     53.02     53.02        53.02
  RUNOFF COEFFICIENT     =          0.980.21        0.57

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

    (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
        CN*  = 58.0  Ia  =Dep. Storage  (Above)
   (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
        THAN THE STORAGE COEFFICIENT.
  (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB                       |
| STANDHYD  (0108)|  Area   (ha)=     1.23
|ID= 1 DT= 5.0 min |  Total Imp(%)=   49.00 Dir. Conn.(%)=  49.00
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                      IMPERVIOUS    PERVIOUS (i)
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Surface Area (ha)=	0.60	0.63
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	16.61	
over (min)	5.00	20.00	
Storage Coeff. (min)=	2.78 (ii)	17.25 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.28	0.06	
		TOTALS	
PEAK FLOW (cms)=	0.12	0.02	0.127 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	11.27	31.23
TOTAL RAINFALL (mm)=	53.02	53.02	53.02

RUNOFF COEFFICIENT = 0.980.21 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0109) | Area (ha)= 0.90
ID= 1 DT= 5.0 min | Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.002.00	
Length (m)=	77.4640.00	
Mannings n =	0.013 0.250	

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06

2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06				
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06				
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06				
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06				
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06				
3.083	1.59	6.167	69.99	9.250	1.86						

Max.Eff.Inten.(mm/hr)=	69.99	33.86	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.53 (ii)	13.41 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.29	0.08	
	TOTALS		
PEAK FLOW (cms)=	0.10	0.02	0.122 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	52.02	22.30	39.82
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.42	0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	

NASHYD (0141)	Area (ha)= 3.10	Curve Number (CN)= 61.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.53	

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06

1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.049 (i)
TIME TO PEAK (hrs)= 6.750
RUNOFF VOLUME (mm)= 10.958
TOTAL RAINFALL (mm)= 53.020
RUNOFF COEFFICIENT = 0.207

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0142)| Area (ha)= 0.72 Curve Number (CN)= 58.0
|ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-------------------- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06

1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06				
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06				
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06				
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06				
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06				
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06				
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06				
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06				
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06				
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06				
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06				
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06				
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06				
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06				
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06				
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06				
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06				
3.083	1.59	6.167	69.99	9.250	1.86						

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.020 (i)
TIME TO PEAK (hrs)= 6.333
RUNOFF VOLUME (mm)= 9.922
TOTAL RAINFALL (mm)= 53.020
RUNOFF COEFFICIENT = 0.187

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (1721)	Area (ha)= 0.97
ID= 1 DT= 5.0 min	Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86

1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	16.61	
over (min)	5.00	20.00	
Storage Coeff. (min)=	(ii)	2.59	7.06 (ii)
Unit Hyd. Tpeak (min)=		5.00	20.00

Unit Hyd. peak (cms)=	0.29	0.06	
		TOTALS	
PEAK FLOW (cms)=	0.07	0.02	0.08 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	11.27	26.34
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.21	0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0101)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	25.63	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.00 (ii)	14.16 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.31	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.04	0.01	0.050 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	52.02	17.10	35.93
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.32	0.68

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.80
ID= 1 DT= 5.0 min	Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	0.45
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	73.03	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

```
    Max.Eff.Inten.(mm/hr)=          69.99 25.63
          over (min)                5.00 15.00
    Storage Coeff.  (min)=      2.44 (ii)   14.61 (ii)
    Unit Hyd. Tpeak (min)=            5.00 15.00
    Unit Hyd. peak  (cms)=      0.30              0.08
                                  *TOTALS*
    PEAK FLOW      (cms)=       0.07       0.02       0.085 (iii)
    TIME TO PEAK   (hrs)=          6.25 6.33          6.25
    RUNOFF VOLUME  (mm)=       52.02      17.10      32.45
    TOTAL RAINFALL (mm)=       53.02      53.02      53.02
    RUNOFF COEFFICIENT  =       0.98 0.32          0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  71.0  Ia  = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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**********************************************************
** SIMULATION:010yr  12hr15min SCS Type II (MTO) **
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|   READ STORM      Filename: C:\Users\RObeid\AppD
|                   ata\Local\Temp\
|                   2dc9d38f-98e2-4608-97a8-64e21145182b\72788581
| Ptotal= 63.19 mm  |  Comments: 010yr  12hr15min SCS Type II (MTO)
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	3.25	2.53	6.50	11.37	9.75	2.21
0.25	1.58	3.50	2.53	6.75	5.06	10.00	2.21
0.50	1.58	3.75	2.53	7.00	5.06	10.25	1.26
0.75	1.58	4.00	2.53	7.25	3.79	10.50	1.26
1.00	1.58	4.25	3.79	7.50	3.79	10.75	1.26
1.25	1.58	4.50	3.79	7.75	3.79	11.00	1.26
1.50	1.58	4.75	5.06	8.00	3.79	11.25	1.26
1.75	1.58	5.00	5.06	8.25	2.21	11.50	1.26
2.00	1.58	5.25	7.58	8.50	2.21	11.75	1.26
2.25	1.90	5.50	7.58	8.75	2.21	12.00	1.26
2.50	1.90	5.75	30.33	9.00	2.21		
2.75	1.90	6.00	83.41	9.25	2.21		
3.00	1.90	6.25	11.37	9.50	2.21		

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| CALIB                        |
| STANDHYD  (0103)|  Area    (ha)=     4.48
|ID= 1 DT= 5.0 min |  Total Imp(%)=   32.00  Dir. Conn.(%)=  32.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
    Surface Area     (ha)=       1.43              3.05
    Dep. Storage     (mm)=       1.00         1.50
    Average Slope    (%)=              1.00 2.00
    Length           (m)=          172.82  40.00
    Mannings  n      =          0.013    0.250
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NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	26.87	
over (min)	5.00	20.00	
Storage Coeff. (min)=	3.81 (ii)	15.75 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.25	0.07	
		TOTALS	
PEAK FLOW (cms)=	0.33	0.13	0.416 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	62.19	18.05	32.17
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.29	0.51

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 63.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0105)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.23	0.18
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26

3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 15.00
Storage Coeff. (min)= 1.86 (ii) 14.58 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.32 0.08

TOTALS

PEAK FLOW (cms)= 0.05 0.01 0.059 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 41.62
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.66

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0106) | Area (ha)= 1.64
|ID= 1 DT= 5.0 min | Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.74	0.90
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26

1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92
over (min)	5.00	20.00
Storage Coeff. (min)=	2.82 (ii)	15.54 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.28	0.07
	TOTALS	
PEAK FLOW (cms)=	0.17	0.03 0.193 (iii)
TIME TO PEAK (hrs)=	6.25	6.42 6.25
RUNOFF VOLUME (mm)=	62.19	15.49 36.50
TOTAL RAINFALL (mm)=	63.19	63.19 63.19
RUNOFF COEFFICIENT =	0.98	0.25 0.58

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0171)	Area (ha)= 2.67
ID= 1 DT= 5.0 min	Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.15	1.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21

0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21	
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21	
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21	
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21	
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21	
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21	
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21	
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21	
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21	
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21	
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26	
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26	
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26	
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26	
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26	
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26	
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26	
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26	
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26	
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26	
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26	
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26	
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26	
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26	
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26	
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26	
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26	
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26	
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26	
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26	
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26	
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26	
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26	
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26	
3.083	1.90	6.167	83.41	9.250	2.21			

Max.Eff.Inten.(mm/hr)= 83.41 21.50
over (min) 5.00 20.00
Storage Coeff. (min)= 3.27 (ii) 16.32 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.27 0.06

TOTALS

PEAK FLOW (cms)= 0.26 0.05 0.299 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 14.57 35.04
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.23 0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 56.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (1722)	Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92	
over (min)	5.00	20.00	
Storage Coeff. (min)=	2.65 (ii)	15.37 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.29	0.07	
		TOTALS	
PEAK FLOW (cms)=	0.14	0.03	0.162 (iii)

TIME TO PEAK (hrs)= 6.25 6.42 6.25

RUNOFF VOLUME (mm)= 62.19 15.49 37.43

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.98 0.25 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0108) | Area (ha)= 1.23
ID= 1 DT= 5.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.60	0.63
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26

2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92	
over (min)	5.00	20.00	
Storage Coeff. (min)=	2.59 (ii)	15.31 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.29	0.07	
	TOTALS		
PEAK FLOW (cms)=	0.14	0.02	0.155 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	62.19	15.49	38.37
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.25	0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB	|
| STANDHYD (0109)|	Area (ha)= 0.90
|ID= 1 DT= 5.0 min |	Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	77.46	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21

1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	47.61
over (min)	5.00	15.00
Storage Coeff. (min)=	2.36 (ii)	11.85 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.30	0.09
	TOTALS	
PEAK FLOW (cms)=	0.12	0.03 0.150 (iii)
TIME TO PEAK (hrs)=	6.25	6.33 6.25
RUNOFF VOLUME (mm)=	62.19	29.45 48.76
TOTAL RAINFALL (mm)=	63.19	63.19 63.19
RUNOFF COEFFICIENT =	0.98	0.47 0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB	|		
| NASHYD (0141)	| Area (ha)=	3.10	Curve Number (CN)= 61.0
|ID= 1 DT= 5.0 min	| Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.53	

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083 0.00 | 3.167 1.90 | 6.250 83.41 | 9.33 2.21
0.167 0.00 | 3.250 1.90 | 6.333 11.37 | 9.42 2.21
0.250 0.00 | 3.333 2.53 | 6.417 11.37 | 9.50 2.21
0.333 1.58 | 3.417 2.53 | 6.500 11.37 | 9.58 2.21
0.417 1.58 | 3.500 2.53 | 6.583 11.37 | 9.67 2.21
0.500 1.58 | 3.583 2.53 | 6.667 11.37 | 9.75 2.21
0.583 1.58 | 3.667 2.53 | 6.750 11.37 | 9.83 2.21
0.667 1.58 | 3.750 2.53 | 6.833 5.06 | 9.92 2.21
0.750 1.58 | 3.833 2.53 | 6.917 5.06 | 10.00 2.21
0.833 1.58 | 3.917 2.53 | 7.000 5.06 | 10.08 2.21
0.917 1.58 | 4.000 2.53 | 7.083 5.06 | 10.17 2.21
1.000 1.58 | 4.083 2.53 | 7.167 5.06 | 10.25 2.21
1.083 1.58 | 4.167 2.53 | 7.250 5.06 | 10.33 1.26
1.167 1.58 | 4.250 2.53 | 7.333 3.79 | 10.42 1.26
1.250 1.58 | 4.333 3.79 | 7.417 3.79 | 10.50 1.26
1.333 1.58 | 4.417 3.79 | 7.500 3.79 | 10.58 1.26
1.417 1.58 | 4.500 3.79 | 7.583 3.79 | 10.67 1.26
1.500 1.58 | 4.583 3.79 | 7.667 3.79 | 10.75 1.26
1.583 1.58 | 4.667 3.79 | 7.750 3.79 | 10.83 1.26
1.667 1.58 | 4.750 3.79 | 7.833 3.79 | 10.92 1.26
1.750 1.58 | 4.833 5.06 | 7.917 3.79 | 11.00 1.26
1.833 1.58 | 4.917 5.06 | 8.000 3.79 | 11.08 1.26
1.917 1.58 | 5.000 5.06 | 8.083 3.79 | 11.17 1.26
2.000 1.58 | 5.083 5.06 | 8.167 3.79 | 11.25 1.26
2.083 1.58 | 5.167 5.06 | 8.250 3.79 | 11.33 1.26
2.167 1.58 | 5.250 5.06 | 8.333 2.21 | 11.42 1.26
2.250 1.58 | 5.333 7.58 | 8.417 2.21 | 11.50 1.26
2.333 1.90 | 5.417 7.58 | 8.500 2.21 | 11.58 1.26
2.417 1.90 | 5.500 7.58 | 8.583 2.21 | 11.67 1.26
2.500 1.90 | 5.583 7.58 | 8.667 2.21 | 11.75 1.26
2.583 1.90 | 5.667 7.58 | 8.750 2.21 | 11.83 1.26
2.667 1.90 | 5.750 7.58 | 8.833 2.21 | 11.92 1.26
2.750 1.90 | 5.833 30.33 | 8.917 2.21 | 12.00 1.26
2.833 1.90 | 5.917 30.33 | 9.000 2.21 | 12.08 1.26
2.917 1.90 | 6.000 30.33 | 9.083 2.21 | 12.17 1.26
3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26
3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.069 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 15.350
TOTAL RAINFALL (mm)= 63.190
RUNOFF COEFFICIENT = 0.243

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0142)| Area (ha)= 0.72 Curve Number (CN)= 58.0
|ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
--- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.028 (i)
TIME TO PEAK (hrs)= 6.333
RUNOFF VOLUME (mm)= 13.958
TOTAL RAINFALL (mm)= 63.190
RUNOFF COEFFICIENT = 0.221

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (1721)	Area (ha)=	0.97
ID= 1 DT= 5.0 min	Total Imp(%)=	37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92	
over (min)	5.00	20.00	
Storage Coeff. (min)=	2.41 (ii)	15.13 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.30	0.07	
		TOTALS	
PEAK FLOW (cms)=	0.08	0.02	0.098 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	62.19	15.49	32.76
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.25	0.52

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0101)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26

3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26

3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.41 34.62

over (min) 5.00 15.00

Storage Coeff. (min)= 1.86 (ii) 12.65 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.32 0.08

TOTALS

PEAK FLOW (cms)= 0.05 0.01 0.061 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 62.19 23.00 44.14

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.98 0.36 0.70

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0102) | Area (ha)= 0.80
ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	0.45
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	73.03	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26

1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=		83.41	34.62
over (min)		5.00	15.00
Storage Coeff. (min)=	2.27 (ii)	13.06 (ii)	
Unit Hyd. Tpeak (min)=		5.00	15.00
Unit Hyd. peak (cms)=	0.30		0.08
		TOTALS	
PEAK FLOW (cms)=		0.08	0.03 0.105 (iii)
TIME TO PEAK (hrs)=		6.25	6.33 6.25
RUNOFF VOLUME (mm)=	62.19	23.00	40.24
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =		0.98	0.36 0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

****

** SIMULATION:025yr 12hr15min SCS Type II (MTO) **

****

| READ STORM | Filename: C:\Users\RObeid\AppData\Local\Temp\2dc9d38f-98e2-4608-97a8-64e21145182b\011a1172

| Ptotal= 73.70 mm | Comments: 025yr 12hr15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	3.25	2.95	6.50	13.27	9.75	2.58
0.25	1.84	3.50	2.95	6.75	5.90	10.00	2.58
0.50	1.84	3.75	2.95	7.00	5.90	10.25	1.47
0.75	1.84	4.00	2.95	7.25	4.42	10.50	1.47
1.00	1.84	4.25	4.42	7.50	4.42	10.75	1.47
1.25	1.84	4.50	4.42	7.75	4.42	11.00	1.47
1.50	1.84	4.75	5.90	8.00	4.42	11.25	1.47

1.75	1.84	5.00	5.90	8.25	2.58	11.50	1.47	0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
2.00	1.84	5.25	8.84	8.50	2.58	11.75	1.47	0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
2.25	2.21	5.50	8.84	8.75	2.58	12.00	1.47	0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
2.50	2.21	5.75	35.38	9.00	2.58			0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
2.75	2.21	6.00	97.28	9.25	2.58			0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
3.00	2.21	6.25	13.27	9.50	2.58			0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
								0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
								0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
								1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
								1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
								1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
								1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
								1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
								1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
								1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
								1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
								1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
								1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
								1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
								1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
								2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
								2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
								2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
								2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
								2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
								2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
								2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
								2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
								2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
								2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47

CALIB	
STANDHYD (0103)	Area (ha)= 4.48
ID= 1 DT= 5.0 min	Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.43	3.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	172.82	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58

2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	35.18	
over (min)	5.00	15.00	
Storage Coeff. (min)=	3.59 (ii)	14.30 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.26	0.08	
	TOTALS		
PEAK FLOW (cms)=	0.38	0.18	0.540 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	23.55	39.27
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.32	0.53

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 63.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0105)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.23	0.18
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47

1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	30.22	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.75 (ii)	13.14 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.32	0.08	
	TOTALS		
PEAK FLOW (cms)=	0.06	0.01	0.070 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	49.65
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0106)	Area (ha)=	1.64
ID= 1 DT= 5.0 min	Total Imp(%)=	45.00 Dir. Conn.(%)= 45.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.74	0.90
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	30.22	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.65 (ii)	14.04 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.29	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.20	0.05	0.239 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	43.90
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.60

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0171)| Area (ha)= 2.67

|ID= 1 DT= 5.0 min | Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.15	1.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	28.41
over (min)	5.00	15.00
Storage Coeff. (min)=	3.07 (ii)	14.75 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00

Unit Hyd. peak (cms)= 0.27 0.08

TOTALS

PEAK FLOW (cms)= 0.31 0.07 0.370 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 72.70 19.18 42.19

TOTAL RAINFALL (mm)= 73.70 73.70 73.70

RUNOFF COEFFICIENT = 0.99 0.26 0.57

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 56.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (1722) | Area (ha)= 1.33
ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47

2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	30.22	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.49 (ii)	13.88 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.29	0.08	
	TOTALS		
PEAK FLOW (cms)=	0.17	0.04	0.200 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	44.95
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0108)	Area (ha)= 1.23
ID= 1 DT= 5.0 min	Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.60	0.63
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58

0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58	
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58	
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58	
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58	
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47	
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47	
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47	
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47	
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47	
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47	
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47	
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47	
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47	
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47	
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47	
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47	
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47	
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47	
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47	
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47	
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47	
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47	
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47	
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47	
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47	
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47	
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47	
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47	
3.083	2.21	6.167	97.28	9.250	2.58			

Max.Eff.Inten.(mm/hr)=	97.28	30.22	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.43 (ii)	13.82 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.30	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.16	0.03	0.191 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	46.00
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.62

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0109)	Area (ha)=	0.90	
ID= 1 DT= 5.0 min	Total Imp(%)=	59.00	Dir. Conn.(%)= 59.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00

Length	(m)=	77.46	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=		97.28	60.09
over (min)		5.00	5.00
Storage Coeff. (min)=	2.22 (ii)	10.87 (ii)	
Unit Hyd. Tpeak (min)=		5.00	5.00
Unit Hyd. peak (cms)=	0.30	0.09	
		TOTALS	
PEAK FLOW (cms)=		0.14	0.04 0.179 (iii)
TIME TO PEAK (hrs)=		6.25	6.33 6.25
RUNOFF VOLUME (mm)=	72.70	37.31	58.18
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =		0.99	0.51 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 79.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB				
NASHYD (0141)	Area (ha)= 3.10	Curve Number (CN)= 61.0		
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00		
U.H. Tp(hrs)= 0.53				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.092 (i)

TIME TO PEAK (hrs)= 6.667

RUNOFF VOLUME (mm)= 20.422

TOTAL RAINFALL (mm)= 73.700

RUNOFF COEFFICIENT = 0.277

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
NASHYD (0142)	Area (ha)= 0.72 Curve Number (CN)= 58.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.038 (i)
TIME TO PEAK (hrs)= 6.333
RUNOFF VOLUME (mm)= 18.646
TOTAL RAINFALL (mm)= 73.700
RUNOFF COEFFICIENT = 0.253

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (1721)	Area (ha)= 0.97
ID= 1 DT= 5.0 min	Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47

2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	30.22
over (min)	5.00	15.00
Storage Coeff. (min)=	2.27 (ii)	13.66 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.30	0.08

TOTALS

PEAK FLOW (cms)=	0.10	0.03	0.124 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	39.71
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.54

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0101)	Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47

1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	47.83	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.75 (ii)	11.23 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.32	0.09	
	TOTALS		
PEAK FLOW (cms)=	0.06	0.02	0.074 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	29.63	52.87
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.40	0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)=	0.80	
ID= 1 DT= 5.0 min	Total Imp(%)=	44.00	Dir. Conn.(%)= 44.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	0.45
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	73.03	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	47.83	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.14 (ii)	11.62 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.31	0.09	
		TOTALS	
PEAK FLOW (cms)=	0.10	0.04	0.128 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	29.63	48.57
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.40	0.66

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

****

** SIMULATION:050yr 12hr15min SCS Type II (MTO) **

****

| READ STORM | Filename: C:\Users\RObeid\AppD
| ata\Local\Temp\
| 2dc9d38f-98e2-4608-97a8-64e21145182b\16787c54
| Ptotal= 81.65 mm | Comments: 050yr 12hr15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	3.25	3.27	6.50	14.70	9.75	2.86
0.25	2.04	3.50	3.27	6.75	6.53	10.00	2.86
0.50	2.04	3.75	3.27	7.00	6.53	10.25	1.63
0.75	2.04	4.00	3.27	7.25	4.90	10.50	1.63
1.00	2.04	4.25	4.90	7.50	4.90	10.75	1.63
1.25	2.04	4.50	4.90	7.75	4.90	11.00	1.63
1.50	2.04	4.75	6.53	8.00	4.90	11.25	1.63
1.75	2.04	5.00	6.53	8.25	2.86	11.50	1.63
2.00	2.04	5.25	9.80	8.50	2.86	11.75	1.63
2.25	2.45	5.50	9.80	8.75	2.86	12.00	1.63
2.50	2.45	5.75	39.19	9.00	2.86		
2.75	2.45	6.00	107.78	9.25	2.86		
3.00	2.45	6.25	14.70	9.50	2.86		

CALIB
STANDHYD (0103) | Area (ha)= 4.48
ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.43	3.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	172.82	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63

1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	45.12
over (min)	5.00	15.00
Storage Coeff. (min)=	3.44 (ii)	13.15 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.26	0.08

TOTALS

PEAK FLOW (cms)=	0.43	0.23	0.621 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	80.65	28.01	44.85
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.34	0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 63.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB		|
| STANDHYD (0105)|	Area (ha)=	0.41
|ID= 1 DT= 5.0 min |	Total Imp(%)=	56.00 Dir. Conn.(%)= 56.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.23	0.18
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	36.21	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.68 (ii)	12.28 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.32	0.09	
		TOTALS	
PEAK FLOW (cms)=	0.07	0.01	0.079 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	55.85
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.30	0.68

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0106)	Area (ha)= 1.64
ID= 1 DT= 5.0 min	Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.74	0.90
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 36.21

over (min) 5.00 5.00

Storage Coeff. (min)= 2.55 (ii) 13.14 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.29 0.08

TOTALS

PEAK FLOW (cms)= 0.22 0.06 0.270 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 80.65 24.33 49.67

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 0.30 0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0171)	Area (ha)= 2.67
ID= 1 DT= 5.0 min	Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.15	1.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63

1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	34.10
over (min)	5.00	15.00
Storage Coeff. (min)=	2.95 (ii)	13.80 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.28	0.08
	TOTALS	
PEAK FLOW (cms)=	0.34	0.09 0.419 (iii)
TIME TO PEAK (hrs)=	6.25	6.33 6.25
RUNOFF VOLUME (mm)=	80.65	22.97 47.77
TOTAL RAINFALL (mm)=	81.65	81.65 81.65
RUNOFF COEFFICIENT =	0.99	0.28 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 56.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (1722)	Area (ha)= 1.33
ID= 1 DT= 5.0 min	Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86

0.500 2.04 | 3.583 3.27 | 6.667 14.70 | 9.75 2.86
0.583 2.04 | 3.667 3.27 | 6.750 14.70 | 9.83 2.86
0.667 2.04 | 3.750 3.27 | 6.833 6.53 | 9.92 2.86
0.750 2.04 | 3.833 3.27 | 6.917 6.53 | 10.00 2.86
0.833 2.04 | 3.917 3.27 | 7.000 6.53 | 10.08 2.86
0.917 2.04 | 4.000 3.27 | 7.083 6.53 | 10.17 2.86
1.000 2.04 | 4.083 3.27 | 7.167 6.53 | 10.25 2.86
1.083 2.04 | 4.167 3.27 | 7.250 6.53 | 10.33 1.63
1.167 2.04 | 4.250 3.27 | 7.333 4.90 | 10.42 1.63
1.250 2.04 | 4.333 4.90 | 7.417 4.90 | 10.50 1.63
1.333 2.04 | 4.417 4.90 | 7.500 4.90 | 10.58 1.63
1.417 2.04 | 4.500 4.90 | 7.583 4.90 | 10.67 1.63
1.500 2.04 | 4.583 4.90 | 7.667 4.90 | 10.75 1.63
1.583 2.04 | 4.667 4.90 | 7.750 4.90 | 10.83 1.63
1.667 2.04 | 4.750 4.90 | 7.833 4.90 | 10.92 1.63
1.750 2.04 | 4.833 6.53 | 7.917 4.90 | 11.00 1.63
1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63
1.917 2.04 | 5.000 6.53 | 8.083 4.90 | 11.17 1.63
2.000 2.04 | 5.083 6.53 | 8.167 4.90 | 11.25 1.63
2.083 2.04 | 5.167 6.53 | 8.250 4.90 | 11.33 1.63
2.167 2.04 | 5.250 6.53 | 8.333 2.86 | 11.42 1.63
2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63
2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63
2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63
2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63
2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63
2.667 2.45 | 5.750 9.80 | 8.833 2.86 | 11.92 1.63
2.750 2.45 | 5.833 39.19 | 8.917 2.86 | 12.00 1.63
2.833 2.45 | 5.917 39.19 | 9.000 2.86 | 12.08 1.63
2.917 2.45 | 6.000 39.19 | 9.083 2.86 | 12.17 1.63
3.000 2.45 | 6.083 107.78 | 9.167 2.86 | 12.25 1.63
3.083 2.45 | 6.167 107.78 | 9.250 2.86 |

Max.Eff.Inten.(mm/hr)= 107.78 36.21
over (min) 5.00 5.00
Storage Coeff. (min)= 2.39 (ii) 12.99 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08
TOTALS
PEAK FLOW (cms)= 0.19 0.05 0.226 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 80.65 24.33 50.79
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.30 0.62

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0108)	Area (ha)= 1.23
ID= 1 DT= 5.0 min	Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)

Surface Area (ha)=	0.60	0.63
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	36.21	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.34 (ii)	12.96 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.30	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.18	0.04	0.215 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	51.92
TOTAL RAINFALL (mm)=	81.65	81.65	81.65

RUNOFF COEFFICIENT = 0.990.30 0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0109) | Area (ha)= 0.90
ID= 1 DT= 5.0 min | Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.002.00	
Length (m)=	77.4640.00	
Mannings n =	0.013 0.250	

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63

2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63		
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63		
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63		
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63		
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63		
3.083	2.45	6.167	107.78	9.250	2.86				

Max.Eff.Inten.(mm/hr)=	107.78	69.86	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.13 (ii)	10.27 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.31	0.09	
	TOTALS		
PEAK FLOW (cms)=	0.16	0.05	0.202 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	80.65	43.50	65.41
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.53	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB

NASHYD (0141)	Area (ha)= 3.10	Curve Number (CN)= 61.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00
---	U.H. Tp(hrs)= 0.53	

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63

1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63		
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63		
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63		
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63		
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63		
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63		
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63		
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63		
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63		
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63		
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63		
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63		
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63		
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63		
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63		
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63		
3.083	2.45	6.167	107.78	9.250	2.86				

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.111 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 24.577
TOTAL RAINFALL (mm)= 81.650
RUNOFF COEFFICIENT = 0.301

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB									
NASHYD (0142)	Area (ha)= 0.72	Curve Number (CN)= 58.0							
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00							
U.H. Tp(hrs)= 0.20									

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63

1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63				
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63				
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63				
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63				
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63				
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63				
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63				
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63				
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63				
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63				
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63				
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63				
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63				
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63				
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63				
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63				
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63				
3.083	2.45	6.167	107.78	9.250	2.86						

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.046 (i)
TIME TO PEAK (hrs)= 6.333
RUNOFF VOLUME (mm)= 22.503
TOTAL RAINFALL (mm)= 81.650
RUNOFF COEFFICIENT = 0.276

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (1721)	Area (ha)=	0.97
ID= 1 DT= 5.0 min	Total Imp(%)=	37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86

1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	36.21
over (min)	5.00	15.00
Storage Coeff. (min)=	2.18 (ii)	12.77 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.31	0.08

TOTALS

PEAK FLOW (cms)=	0.11	0.04	0.142 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	45.16
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.30	0.55

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0101)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	56.32	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.68 (ii)	10.56 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.32	0.09	
		TOTALS	
PEAK FLOW (cms)=	0.07	0.02	0.083 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	80.65	34.93	59.61
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.43	0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.80
ID= 1 DT= 5.0 min	Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	0.45
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	73.03	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 56.32
over (min) 5.00 15.00
Storage Coeff. (min)= 2.05 (ii) 10.93 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.31 0.09
TOTALS
PEAK FLOW (cms)= 0.11 0.05 0.145 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 80.65 34.93 55.04
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.43 0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

****
** SIMULATION:100yr 12hr15min SCS Type II (MTO) **
****

| READ STORM | Filename: C:\Users\RObeid\AppD
| | ata\Local\Temp\
| | 2dc9d38f-98e2-4608-97a8-64e21145182b\08916079
| Ptotal= 89.60mm | Comments: 100yr 12hr15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	3.58	6.50	16.13	9.75	3.14
0.25	2.24	3.50	3.58	6.75	7.17	10.00	3.14
0.50	2.24	3.75	3.58	7.00	7.17	10.25	1.79
0.75	2.24	4.00	3.58	7.25	5.38	10.50	1.79
1.00	2.24	4.25	5.38	7.50	5.38	10.75	1.79
1.25	2.24	4.50	5.38	7.75	5.38	11.00	1.79
1.50	2.24	4.75	7.17	8.00	5.38	11.25	1.79
1.75	2.24	5.00	7.17	8.25	3.14	11.50	1.79
2.00	2.24	5.25	10.75	8.50	3.14	11.75	1.79
2.25	2.69	5.50	10.75	8.75	3.14	12.00	1.79
2.50	2.69	5.75	43.01	9.00	3.14		
2.75	2.69	6.00	118.27	9.25	3.14		
3.00	2.69	6.25	16.13	9.50	3.14		

| CALIB |
| STANDHYD (0103)| Area (ha)= 4.48
|ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.43	3.05
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	2.00
Length	(m)=	172.82	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	52.67	
over (min)	5.00	15.00	
Storage Coeff. (min)=	3.32 (ii)	12.44 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.26	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.47	0.27	0.704 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	32.71	50.59
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.37	0.56

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 63.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0105)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.23	0.18
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79

3.083 2.69 | 6.167 118.27 | 9.250 3.14 |

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.00 15.00
Storage Coeff. (min)= 1.62 (ii) 11.26 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.32 0.09
TOTALS
PEAK FLOW (cms)= 0.08 0.01 0.088 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 88.60 28.53 62.15
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.32 0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0106) | Area (ha)= 1.64
|ID= 1 DT= 5.0 min | Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.74 0.90
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 104.56 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79

1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79		
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79		
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79		
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79		
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79		
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79		
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79		
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79		
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79		
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79		
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79		
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79		
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79		
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79		
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79		
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79		
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79		
3.083	2.69	6.167	118.27	9.250	3.14				

Max.Eff.Inten.(mm/hr)=	118.27	45.87	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.45 (ii)	12.09 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.30	0.09	
		TOTALS	
PEAK FLOW (cms)=	0.24	0.07	0.303 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	55.56
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.62

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0171)	Area (ha)=	2.67
ID= 1 DT= 5.0 min	Total Imp(%)=	43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.15	1.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14

0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14	
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14	
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14	
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14	
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14	
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14	
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14	
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14	
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14	
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14	
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79	
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79	
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79	
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79	
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79	
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79	
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79	
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79	
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79	
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79	
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79	
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79	
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79	
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79	
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79	
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79	
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79	
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79	
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79	
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79	
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79	
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79	
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79	
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79	
3.083	2.69	6.167	118.27	9.250	3.14			

Max.Eff.Inten.(mm/hr)= 118.27 43.35
over (min) 5.00 5.00
Storage Coeff. (min)= 2.84 (ii) 12.70 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.28 0.08
TOTALS
PEAK FLOW (cms)= 0.38 0.11 0.471 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 88.60 26.98 53.47
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.30 0.60

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 56.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (1722)	Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.30 (ii)	11.94 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.30	0.09	
		TOTALS	
PEAK FLOW (cms)=	0.21	0.06	0.253 (iii)

TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	56.76
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.63

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0108)	Area (ha)= 1.23
ID= 1 DT= 5.0 min	Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.60	0.63
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79

2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.25 (ii)	11.89 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.30	0.09	
	TOTALS		
PEAK FLOW (cms)=	0.20	0.05	0.24 1 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	57.96
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.65

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0109)	Area (ha)= 0.90
ID= 1 DT= 5.0 min	Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	77.46	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14

1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14	
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79	
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79	
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79	
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79	
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79	
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79	
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79	
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79	
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79	
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79	
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79	
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79	
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79	
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79	
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79	
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79	
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79	
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79	
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79	
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79	
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79	
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79	
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79	
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79	
3.083	2.69	6.167	118.27	9.250	3.14			

Max.Eff.Inten.(mm/hr)=	118.27	79.86	
over (min)		5.00	10.00
Storage Coeff. (min)=	2.05 (ii)	9.77 (ii)	

Unit Hyd. Tpeak (min)=		5.00	10.00
Unit Hyd. peak (cms)=	0.31	0.11	
		TOTALS	
PEAK FLOW (cms)=		0.17	0.06 0.234 (iii)
TIME TO PEAK (hrs)=		6.25	6.25 6.25
RUNOFF VOLUME (mm)=	88.60	49.88	72.71
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =		0.99	0.56 0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
NASHYD (0141)	Area (ha)=	3.10	Curve Number (CN)= 61.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.53	

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14	
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14	
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14	
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14	
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14	
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14	
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14	
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14	
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14	
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14	
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14	
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14	
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79	
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79	
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79	
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79	
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79	
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79	
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79	
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79	
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79	
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79	
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79	
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79	
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79	
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79	
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79	
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79	
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79	
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79	
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79	
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79	
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79	
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79	
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79	
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79	
3.083	2.69	6.167	118.27	9.250	3.14			

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.132 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 28.976
TOTAL RAINFALL (mm)= 89.600
RUNOFF COEFFICIENT = 0.323

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
NASHYD (0142)	Area (ha)= 0.72 Curve Number (CN)= 58.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.055 (i)
TIME TO PEAK (hrs)= 6.333
RUNOFF VOLUME (mm)= 26.602
TOTAL RAINFALL (mm)= 89.600
RUNOFF COEFFICIENT = 0.297

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (1721)	Area (ha)=	0.97	
ID= 1 DT= 5.0 min	Total Imp(%)=	37.00	Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.10 (ii)	11.74 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.31	0.09	
		TOTALS	
PEAK FLOW (cms)=	0.12	0.05	0.160 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	50.75
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.57

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0101)	Area (ha)= 0.41
ID= 1 DT= 5.0 min	Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79

3.000 2.69 | 6.083 118.27 | 9.167 3.14 | 12.25 1.79
3.083 2.69 | 6.167 118.27 | 9.250 3.14 |

Max.Eff.Inten.(mm/hr)= 118.27 65.15
over (min) 5.00 10.00
Storage Coeff. (min)= 1.62 (ii) 10.00 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.32 0.11
TOTALS
PEAK FLOW (cms)= 0.07 0.02 0.097 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 88.60 40.46 66.44
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.45 0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0102)| Area (ha)= 0.80
|ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.35 0.45
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 73.03 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.00 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79

1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	65.15	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.98 (ii)	10.36 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.31	0.09	
	TOTALS		
PEAK FLOW (cms)=	0.12	0.05	0.163 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	40.46	61.63
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.45	0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

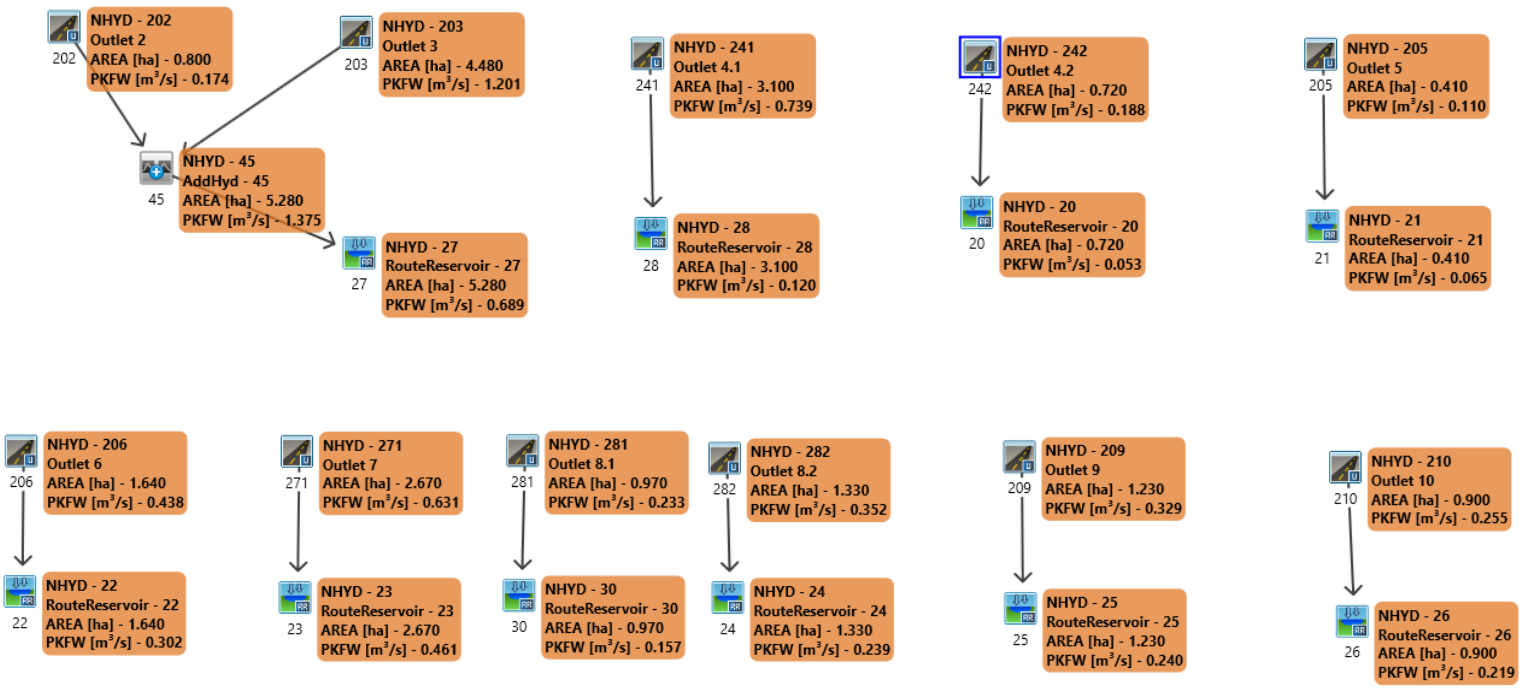
APPENDIX C2

PROPOSED

Summary of VO2 Parameters

	Catchment ID	Hydrograph Classification	T_P Method	Total Drainage Area (ha)	IA (mm)	Weighted Runoff Coeff.	Modified CN Value	Time to Peak, T_P (hr)	Percent Imperv. (%)
ROW	201	STANDHYD	-	0.41	1.50	0.65	71	-	54
	202	STANDHYD	-	0.80	1.50	0.63	71	-	50
	203	STANDHYD	-	4.48	1.50	0.74	67	-	71
	241	STANDHYD	-	3.10	1.50	0.67	58	-	66
	242	STANDHYD	-	0.72	1.50	0.69	58	-	69
	205	STANDHYD	-	0.41	1.50	0.72	58	-	73
	206	STANDHYD	-	1.64	1.50	0.71	58	-	73
	271	STANDHYD	-	2.67	1.50	0.59	58	-	56
	281a	STANDHYD	-	0.97	1.50	0.00	58	-	66
	281b	STANDHYD	-	1.33	1.50	0.71	58	-	72
	209	STANDHYD	-	1.23	1.50	0.72	58	-	73
	210	STANDHYD	-	0.90	1.50	0.79	79	-	69
External	1	STANDHYD	-	19.32	1.50	0.51	63	-	31
	2	NASHYD	Airport	2.01	5.00	0.30	64	0.21	12
	3	NASHYD	Airport	4.63	5.00	0.22	58	0.53	5
	4	STANDHYD	-	16.90	1.50	0.29	43	-	21
	5	NASHYD	Airport	93.22	5.00	0.22	53	1.29	12
	6	STANDHYD	-	8.77	1.50	0.65	58	-	64

VO Schematic - 100Yr - 12hr - 15min SCS Type II



VO DETAIL OUTPUT

****

** SIMULATION:005yr 12hr 15min SCS Type II (MTO) **

****

| READ STORM | Filename: C:\Users\RObeid\AppD

| | ata\Local\Temp\

| | f159238a-5f00-4f05-ac5e-db202b2121bc\cf7cd77a

| Ptotal= 53.02 mm | Comments: 005yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	3.25	2.12	6.50	9.54	9.75	1.86
0.25	1.33	3.50	2.12	6.75	4.24	10.00	1.86
0.50	1.33	3.75	2.12	7.00	4.24	10.25	1.06
0.75	1.33	4.00	2.12	7.25	3.18	10.50	1.06
1.00	1.33	4.25	3.18	7.50	3.18	10.75	1.06
1.25	1.33	4.50	3.18	7.75	3.18	11.00	1.06
1.50	1.33	4.75	4.24	8.00	3.18	11.25	1.06
1.75	1.33	5.00	4.24	8.25	1.86	11.50	1.06
2.00	1.33	5.25	6.36	8.50	1.86	11.75	1.06
2.25	1.59	5.50	6.36	8.75	1.86	12.00	1.06
2.50	1.59	5.75	25.45	9.00	1.86		
2.75	1.59	6.00	69.99	9.25	1.86		
3.00	1.59	6.25	9.54	9.50	1.86		

| CALIB |

| STANDHYD (0242)| Area (ha)= 0.72

|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.50	0.22
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	69.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06

1.833 1.33 | 4.917 4.24 | 8.000 3.18 | 11.08 1.06
1.917 1.33 | 5.000 4.24 | 8.083 3.18 | 11.17 1.06
2.000 1.33 | 5.083 4.24 | 8.167 3.18 | 11.25 1.06
2.083 1.33 | 5.167 4.24 | 8.250 3.18 | 11.33 1.06
2.167 1.33 | 5.250 4.24 | 8.333 1.86 | 11.42 1.06
2.250 1.33 | 5.333 6.36 | 8.417 1.86 | 11.50 1.06
2.333 1.59 | 5.417 6.36 | 8.500 1.86 | 11.58 1.06
2.417 1.59 | 5.500 6.36 | 8.583 1.86 | 11.67 1.06
2.500 1.59 | 5.583 6.36 | 8.667 1.86 | 11.75 1.06
2.583 1.59 | 5.667 6.36 | 8.750 1.86 | 11.83 1.06
2.667 1.59 | 5.750 6.36 | 8.833 1.86 | 11.92 1.06
2.750 1.59 | 5.833 25.45 | 8.917 1.86 | 12.00 1.06
2.833 1.59 | 5.917 25.45 | 9.000 1.86 | 12.08 1.06
2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06
3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06
3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 2.36 (ii) 16.84 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.30 0.06

TOTALS

PEAK FLOW (cms)= 0.10 0.01 0.102 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 39.78
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0020)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0600 0.0240

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0242) 0.720 0.102 6.25 39.78
OUTFLOW: ID= 1 (0020) 0.720 0.029 6.33 39.65

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.75
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0117

| CALIB |
| STANDHYD (0205)| Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.30 0.11
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 52.28 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 2.00 (ii) 16.47 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.31 0.06

	TOTALS		
PEAK FLOW (cms)=	0.06	0.00	0.060 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	11.27	40.99
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.21	0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0021)		OVERFLOW IS OFF				
IN= 2---> OUT= 1						
DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE		

---------- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0880 0.0100

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0205) 0.410 0.060 6.25 40.99

OUTFLOW: ID= 1 (0021) 0.410 0.036 6.33 40.94

PEAK FLOW REDUCTION [Qout/Qin](%)= 59.46

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0044

| CALIB |

| STANDHYD (0206)| Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 1.20 0.44

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 104.56 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 1.59 | 6.250 69.98 | 9.33 1.86

0.167 0.00 | 3.250 1.59 | 6.333 9.54 | 9.42 1.86

0.250 0.00 | 3.333 2.12 | 6.417 9.54 | 9.50 1.86

0.333 1.33 | 3.417 2.12 | 6.500 9.54 | 9.58 1.86

0.417 1.33 | 3.500 2.12 | 6.583 9.54 | 9.67 1.86

0.500 1.33 | 3.583 2.12 | 6.667 9.54 | 9.75 1.86

0.583 1.33 | 3.667 2.12 | 6.750 9.54 | 9.83 1.86

0.667 1.33 | 3.750 2.12 | 6.833 4.24 | 9.92 1.86

0.750 1.33 | 3.833 2.12 | 6.917 4.24 | 10.00 1.86

0.833 1.33 | 3.917 2.12 | 7.000 4.24 | 10.08 1.86

0.917 1.33 | 4.000 2.12 | 7.083 4.24 | 10.17 1.86

1.000 1.33 | 4.083 2.12 | 7.167 4.24 | 10.25 1.86

1.083 1.33 | 4.167 2.12 | 7.250 4.24 | 10.33 1.06

1.167 1.33 | 4.250 2.12 | 7.333 3.18 | 10.42 1.06

1.250 1.33 | 4.333 3.18 | 7.417 3.18 | 10.50 1.06

1.333 1.33 | 4.417 3.18 | 7.500 3.18 | 10.58 1.06

1.417 1.33 | 4.500 3.18 | 7.583 3.18 | 10.67 1.06

1.500 1.33 | 4.583 3.18 | 7.667 3.18 | 10.75 1.06

1.583 1.33 | 4.667 3.18 | 7.750 3.18 | 10.83 1.06

1.667 1.33 | 4.750 3.18 | 7.833 3.18 | 10.92 1.06

1.750 1.33 | 4.833 4.24 | 7.917 3.18 | 11.00 1.06

1.833 1.33 | 4.917 4.24 | 8.000 3.18 | 11.08 1.06

1.917 1.33 | 5.000 4.24 | 8.083 3.18 | 11.17 1.06

2.000 1.33 | 5.083 4.24 | 8.167 3.18 | 11.25 1.06

2.083 1.33 | 5.167 4.24 | 8.250 3.18 | 11.33 1.06

2.167 1.33 | 5.250 4.24 | 8.333 1.86 | 11.42 1.06

2.250 1.33 | 5.333 6.36 | 8.417 1.86 | 11.50 1.06

2.333 1.59 | 5.417 6.36 | 8.500 1.86 | 11.58 1.06

2.417 1.59 | 5.500 6.36 | 8.583 1.86 | 11.67 1.06

2.500 1.59 | 5.583 6.36 | 8.667 1.86 | 11.75 1.06

2.583 1.59 | 5.667 6.36 | 8.750 1.86 | 11.83 1.06

2.667 1.59 | 5.750 6.36 | 8.833 1.86 | 11.92 1.06

2.750 1.59 | 5.833 25.45 | 8.917 1.86 | 12.00 1.06

2.833 1.59 | 5.917 25.45 | 9.000 1.86 | 12.08 1.06

2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06

3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06

3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 3.03 (ii) 17.50 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.27 0.06
TOTALS
PEAK FLOW (cms)= 0.23 0.01 0.239 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 41.01
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0206) 1.640 0.239 6.25 41.01
OUTFLOW: ID= 1 (0022) 1.640 0.166 6.25 41.01

PEAK FLOW REDUCTION [Qout/Qin](%)= 69.28
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0137

| CALIB |
| STANDHYD (0271)| Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.74 0.93
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 133.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86

```
    1.000   1.33 | 4.083   2.12 | 7.167   4.24 | 10.25   1.86
    1.083   1.33 | 4.167   2.12 | 7.250   4.24 | 10.33   1.06
    1.167   1.33 | 4.250   2.12 | 7.333   3.18 | 10.42   1.06
    1.250   1.33 | 4.333   3.18 | 7.417   3.18 | 10.50   1.06
    1.333   1.33 | 4.417   3.18 | 7.500   3.18 | 10.58   1.06
    1.417   1.33 | 4.500   3.18 | 7.583   3.18 | 10.67   1.06
    1.500   1.33 | 4.583   3.18 | 7.667   3.18 | 10.75   1.06
    1.583   1.33 | 4.667   3.18 | 7.750   3.18 | 10.83   1.06
    1.667   1.33 | 4.750   3.18 | 7.833   3.18 | 10.92   1.06
    1.750   1.33 | 4.833   4.24 | 7.917   3.18 | 11.00   1.06
    1.833   1.33 | 4.917   4.24 | 8.000   3.18 | 11.08   1.06
    1.917   1.33 | 5.000   4.24 | 8.083   3.18 | 11.17   1.06
    2.000   1.33 | 5.083   4.24 | 8.167   3.18 | 11.25   1.06
    2.083   1.33 | 5.167   4.24 | 8.250   3.18 | 11.33   1.06
    2.167   1.33 | 5.250   4.24 | 8.333   1.86 | 11.42   1.06
    2.250   1.33 | 5.333   6.36 | 8.417   1.86 | 11.50   1.06
    2.333   1.59 | 5.417   6.36 | 8.500   1.86 | 11.58   1.06
    2.417   1.59 | 5.500   6.36 | 8.583   1.86 | 11.67   1.06
    2.500   1.59 | 5.583   6.36 | 8.667   1.86 | 11.75   1.06
    2.583   1.59 | 5.667   6.36 | 8.750   1.86 | 11.83   1.06
    2.667   1.59 | 5.750   6.36 | 8.833   1.86 | 11.92   1.06
    2.750   1.59 | 5.833  25.45 | 8.917   1.86 | 12.00   1.06
    2.833   1.59 | 5.917  25.45 | 9.000   1.86 | 12.08   1.06
    2.917   1.59 | 6.000  25.45 | 9.083   1.86 | 12.17   1.06
    3.000   1.59 | 6.083  69.99 | 9.167   1.86 | 12.25   1.06
    3.083   1.59 | 6.167  69.99 | 9.250   1.86 |

Max.Eff.Inten.(mm/hr)=     69.99       16.61
          over (min)       5.00       20.00
Storage Coeff.  (min)=     3.50 (ii)  17.97 (ii)
Unit Hyd. Tpeak (min)=     5.00       20.00
Unit Hyd. peak  (cms)=     0.26       0.06
                                *TOTALS*
PEAK FLOW      (cms)=      0.33       0.02        0.350 (iii)
TIME TO PEAK   (hrs)=      6.25       6.42        6.25
RUNOFF VOLUME  (mm)=       52.02      11.27       37.75
TOTAL RAINFALL (mm)=       53.02      53.02       53.02
RUNOFF COEFFICIENT  =      0.98       0.21        0.71

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  58.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
      (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---------------------------------------------------------------------------
--------------------
| RESERVOIR(  0023)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |  (cms)     (ha.m.)
                        0.0000     0.0000    |  0.4710     0.0300

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0271)     2.670     0.350     6.25      37.75
  OUTFLOW: ID= 1 (  0023)     2.670     0.256     6.25      37.75

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 73.24
              TIME SHIFT OF PEAK FLOW         (min)=  0.00
              MAXIMUM  STORAGE   USED         (ha.m.)=  0.0177

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--------------------
| CALIB            |
| STANDHYD (  0282)|   Area    (ha)=   1.33
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|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.96	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	16.61	
over (min)	5.00	20.00	
Storage Coeff. (min)=	2.84 (ii)	17.31 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.28	0.06	
		TOTALS	
PEAK FLOW (cms)=	0.19	0.01	0.192 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	11.27	40.60
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.21	0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0024)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2530 0.0200

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0282)	1.330	0.192	6.25	40.60
OUTFLOW: ID= 1 (0024)	1.330	0.131	6.25	40.59

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.36
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0113

| CALIB |
| STANDHYD (0209)| Area (ha)= 1.23
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.90	0.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06

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          2.333   1.59 | 5.417   6.36 | 8.500   1.86 | 11.58   1.06
          2.417   1.59 | 5.500   6.36 | 8.583   1.86 | 11.67   1.06
          2.500   1.59 | 5.583   6.36 | 8.667   1.86 | 11.75   1.06
          2.583   1.59 | 5.667   6.36 | 8.750   1.86 | 11.83   1.06
          2.667   1.59 | 5.750   6.36 | 8.833   1.86 | 11.92   1.06
          2.750   1.59 | 5.833  25.45 | 8.917   1.86 | 12.00   1.06
          2.833   1.59 | 5.917  25.45 | 9.000   1.86 | 12.08   1.06
          2.917   1.59 | 6.000  25.45 | 9.083   1.86 | 12.17   1.06
          3.000   1.59 | 6.083  69.99 | 9.167   1.86 | 12.25   1.06
          3.083   1.59 | 6.167  69.99 | 9.250   1.86 |

   Max.Eff.Inten.(mm/hr)=     69.99       16.61
          over (min)        5.00       20.00
   Storage Coeff.  (min)=      2.78 (ii)   17.25 (ii)
   Unit Hyd. Tpeak (min)=      5.00       20.00
   Unit Hyd. peak  (cms)=      0.28        0.06
                                    *TOTALS*
   PEAK FLOW      (cms)=      0.17        0.01        0.180 (iii)
   TIME TO PEAK   (hrs)=      6.25        6.42        6.25
   RUNOFF VOLUME  (mm)=      52.02       11.27       41.01
   TOTAL RAINFALL (mm)=      53.02       53.02       53.02
   RUNOFF COEFFICIENT  =      0.98        0.21        0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
    (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
   (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| RESERVOIR(  0025)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |  (cms)     (ha.m.)
                        0.0000     0.0000    |  0.2410      0.0160

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0209)      1.230      0.180      6.25      41.01
  OUTFLOW: ID= 1 (  0025)      1.230      0.132      6.25      41.00

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 73.67
              TIME SHIFT OF PEAK FLOW         (min)=  0.00
              MAXIMUM  STORAGE   USED         (ha.m.)=  0.0095

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--------------------
| CALIB            |
| STANDHYD (  0210)|   Area    (ha)=   0.90
|ID= 1 DT= 5.0 min |   Total Imp(%)=  69.00   Dir. Conn.(%)=  69.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.62         0.28
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope    (%)=        1.00         2.00
     Length           (m)=       77.46        40.00
     Mannings n           =       0.013        0.250

       NOTE:  RAINFALL WAS TRANSFORMED TO   5.0 MIN. TIME STEP.

                        ---- TRANSFORMED HYETOGRAPH ----
              TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
               hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
             0.083    0.00 | 3.167    1.59 | 6.250   69.98 |  9.33    1.86
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0.167 0.00 | 3.250 1.59 | 6.333 9.54 | 9.42 1.86
0.250 0.00 | 3.333 2.12 | 6.417 9.54 | 9.50 1.86
0.333 1.33 | 3.417 2.12 | 6.500 9.54 | 9.58 1.86
0.417 1.33 | 3.500 2.12 | 6.583 9.54 | 9.67 1.86
0.500 1.33 | 3.583 2.12 | 6.667 9.54 | 9.75 1.86
0.583 1.33 | 3.667 2.12 | 6.750 9.54 | 9.83 1.86
0.667 1.33 | 3.750 2.12 | 6.833 4.24 | 9.92 1.86
0.750 1.33 | 3.833 2.12 | 6.917 4.24 | 10.00 1.86
0.833 1.33 | 3.917 2.12 | 7.000 4.24 | 10.08 1.86
0.917 1.33 | 4.000 2.12 | 7.083 4.24 | 10.17 1.86
1.000 1.33 | 4.083 2.12 | 7.167 4.24 | 10.25 1.86
1.083 1.33 | 4.167 2.12 | 7.250 4.24 | 10.33 1.06
1.167 1.33 | 4.250 2.12 | 7.333 3.18 | 10.42 1.06
1.250 1.33 | 4.333 3.18 | 7.417 3.18 | 10.50 1.06
1.333 1.33 | 4.417 3.18 | 7.500 3.18 | 10.58 1.06
1.417 1.33 | 4.500 3.18 | 7.583 3.18 | 10.67 1.06
1.500 1.33 | 4.583 3.18 | 7.667 3.18 | 10.75 1.06
1.583 1.33 | 4.667 3.18 | 7.750 3.18 | 10.83 1.06
1.667 1.33 | 4.750 3.18 | 7.833 3.18 | 10.92 1.06
1.750 1.33 | 4.833 4.24 | 7.917 3.18 | 11.00 1.06
1.833 1.33 | 4.917 4.24 | 8.000 3.18 | 11.08 1.06
1.917 1.33 | 5.000 4.24 | 8.083 3.18 | 11.17 1.06
2.000 1.33 | 5.083 4.24 | 8.167 3.18 | 11.25 1.06
2.083 1.33 | 5.167 4.24 | 8.250 3.18 | 11.33 1.06
2.167 1.33 | 5.250 4.24 | 8.333 1.86 | 11.42 1.06
2.250 1.33 | 5.333 6.36 | 8.417 1.86 | 11.50 1.06
2.333 1.59 | 5.417 6.36 | 8.500 1.86 | 11.58 1.06
2.417 1.59 | 5.500 6.36 | 8.583 1.86 | 11.67 1.06
2.500 1.59 | 5.583 6.36 | 8.667 1.86 | 11.75 1.06
2.583 1.59 | 5.667 6.36 | 8.750 1.86 | 11.83 1.06
2.667 1.59 | 5.750 6.36 | 8.833 1.86 | 11.92 1.06
2.750 1.59 | 5.833 25.45 | 8.917 1.86 | 12.00 1.06
2.833 1.59 | 5.917 25.45 | 9.000 1.86 | 12.08 1.06
2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06
3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06
3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.99 33.86
over (min) 5.00 15.00
Storage Coeff. (min)= 2.53 (ii) 13.41 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.29 0.08
TOTALS
PEAK FLOW (cms)= 0.12 0.02 0.135 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 52.02 22.30 42.80
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.42 0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
---------- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0210) 0.900 0.135 6.25 42.80

OUTFLOW: ID= 1 (0026) 0.900 0.116 6.25 42.79

PEAK FLOW REDUCTION [Qout/Qin](%)= 86.19
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0048

CALIB
STANDHYD (0203)	Area (ha)= 4.48
ID= 1 DT= 5.0 min	Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.18	1.30
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	172.82	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	22.40
over (min)	5.00	20.00
Storage Coeff. (min)=	4.09 (ii)	16.93 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.24	0.06

TOTALS

PEAK FLOW (cms)=	0.61	0.04	0.638 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	15.03	41.29
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.28	0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202)| Area (ha)= 0.80
ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.40	0.40
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	73.03	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06

```
          2.917    1.59 | 6.000   25.45 | 9.083    1.86 | 12.17    1.06
          3.000    1.59 | 6.083   69.99 | 9.167    1.86 | 12.25    1.06
          3.083    1.59 | 6.167   69.99 | 9.250    1.86 |

   Max.Eff.Inten.(mm/hr)=      69.99        25.63
          over (min)        5.00        15.00
   Storage Coeff.  (min)=       2.44 (ii)   14.61 (ii)
   Unit Hyd. Tpeak (min)=       5.00        15.00
   Unit Hyd. peak  (cms)=       0.30        0.08
                                    *TOTALS*
   PEAK FLOW      (cms)=       0.08        0.02         0.092 (iii)
   TIME TO PEAK    (hrs)=      6.25        6.33         6.25
   RUNOFF VOLUME    (mm)=      52.02       17.10        34.55
   TOTAL RAINFALL   (mm)=      53.02       53.02        53.02
   RUNOFF COEFFICIENT   =       0.98        0.32         0.65

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  71.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0045)|
|   1 +  2 =  3    |       AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0202):     0.80   0.092     6.25    34.55
     + ID2= 2 (  0203):     4.48   0.638     6.25    41.29
       ====================================================
       ID = 3 (  0045):     5.28   0.731     6.25    40.27

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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--------------------
| RESERVOIR(  0027)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------       (cms)     (ha.m.)  |  (cms)     (ha.m.)
                       0.0000     0.0000   |  0.7040      0.1100

                            AREA     QPEAK     TPEAK       R.V.
                            (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0045)     5.280      0.731      6.25      40.27
  OUTFLOW: ID= 1 (  0027)     5.280      0.370      6.33      40.26

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 50.63
              TIME SHIFT OF PEAK FLOW         (min)=  5.00
              MAXIMUM  STORAGE   USED       (ha.m.)=  0.0586

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--------------------
| CALIB            |
| STANDHYD (  0241)|   Area    (ha)=   3.10
|ID= 1 DT= 5.0 min |   Total Imp(%)=  66.00   Dir. Conn.(%)=  66.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       2.05         1.05
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       1.00         2.00
     Length           (m)=     143.76        40.00
     Mannings n          =      0.013        0.250

        NOTE:  RAINFALL WAS TRANSFORMED TO   5.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 3.66 (ii) 18.14 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.25 0.06

TOTALS

PEAK FLOW (cms)= 0.39 0.03 0.411 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 38.16
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)

0.0000 0.0000 | 0.1320 0.1200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0241) 3.100 0.411 6.25 38.16
OUTFLOW: ID= 1 (0028) 3.100 0.067 6.75 38.09

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.27
TIME SHIFT OF PEAK FLOW (min)= 30.00
MAXIMUM STORAGE USED (ha.m.)= 0.0608

| CALIB |
| STANDHYD (0281)| Area (ha)= 0.97
|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.64 0.33
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 80.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 2.59 (ii) 17.06 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06
TOTALS
PEAK FLOW (cms)= 0.12 0.01 0.130 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 38.16
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0030)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
--- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1600 0.0130

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0281) 0.970 0.130 6.25 38.16
OUTFLOW: ID= 1 (0030) 0.970 0.088 6.25 38.14

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.75
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0078

****

** SIMULATION:010yr 12hr 15min SCS Type II (MTO) **

****

| READ STORM | Filename: C:\Users\RObeid\AppD
| | ata\Local\Temp\
| | f159238a-5f00-4f05-ac5e-db202b2121bc\72788581
| Ptotal= 63.19 mm | Comments: 010yr 12hr 15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	2.53	6.50	11.37	9.75	2.21
0.25	1.58	3.50	2.53	6.75	5.06	10.00	2.21
0.50	1.58	3.75	2.53	7.00	5.06	10.25	1.26
0.75	1.58	4.00	2.53	7.25	3.79	10.50	1.26
1.00	1.58	4.25	3.79	7.50	3.79	10.75	1.26
1.25	1.58	4.50	3.79	7.75	3.79	11.00	1.26
1.50	1.58	4.75	5.06	8.00	3.79	11.25	1.26
1.75	1.58	5.00	5.06	8.25	2.21	11.50	1.26
2.00	1.58	5.25	7.58	8.50	2.21	11.75	1.26
2.25	1.90	5.50	7.58	8.75	2.21	12.00	1.26
2.50	1.90	5.75	30.33	9.00	2.21		
2.75	1.90	6.00	83.41	9.25	2.21		
3.00	1.90	6.25	11.37	9.50	2.21		

| CALIB |

| STANDHYD (0242)| Area (ha)= 0.72

|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.50	0.22
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	69.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.20 (ii)	14.93 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.30	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.12	0.01	0.124 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	62.19	15.49	48.17
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.25	0.76

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0020)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0600 0.0240

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0242)	0.720	0.124	6.25	48.17
OUTFLOW: ID= 1 (0020)	0.720	0.035	6.33	48.04

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.62

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0142

| CALIB |

| STANDHYD (0205)| Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.30	0.11
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26

2.250 1.58 | 5.333 7.58 | 8.417 2.21 | 11.50 1.26
2.333 1.90 | 5.417 7.58 | 8.500 2.21 | 11.58 1.26
2.417 1.90 | 5.500 7.58 | 8.583 2.21 | 11.67 1.26
2.500 1.90 | 5.583 7.58 | 8.667 2.21 | 11.75 1.26
2.583 1.90 | 5.667 7.58 | 8.750 2.21 | 11.83 1.26
2.667 1.90 | 5.750 7.58 | 8.833 2.21 | 11.92 1.26
2.750 1.90 | 5.833 30.33 | 8.917 2.21 | 12.00 1.26
2.833 1.90 | 5.917 30.33 | 9.000 2.21 | 12.08 1.26
2.917 1.90 | 6.000 30.33 | 9.083 2.21 | 12.17 1.26
3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26
3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 15.00
Storage Coeff. (min)= 1.86 (ii) 14.58 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.32 0.08
TOTALS
PEAK FLOW (cms)= 0.07 0.00 0.073 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 49.56
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0021)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
---------- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0880 0.0100

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0205) 0.410 0.073 6.25 49.56
OUTFLOW: ID= 1 (0021) 0.410 0.043 6.33 49.50

PEAK FLOW REDUCTION [Qout/Qin](%)= 59.29
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0053

| CALIB |
| STANDHYD (0206)| Area (ha)= 1.64
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.20 0.44
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 104.56 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 1.90 | 6.250 83.41 | 9.33 2.21
0.167 0.00 | 3.250 1.90 | 6.333 11.37 | 9.42 2.21
0.250 0.00 | 3.333 2.53 | 6.417 11.37 | 9.50 2.21
0.333 1.58 | 3.417 2.53 | 6.500 11.37 | 9.58 2.21
0.417 1.58 | 3.500 2.53 | 6.583 11.37 | 9.67 2.21
0.500 1.58 | 3.583 2.53 | 6.667 11.37 | 9.75 2.21
0.583 1.58 | 3.667 2.53 | 6.750 11.37 | 9.83 2.21
0.667 1.58 | 3.750 2.53 | 6.833 5.06 | 9.92 2.21
0.750 1.58 | 3.833 2.53 | 6.917 5.06 | 10.00 2.21
0.833 1.58 | 3.917 2.53 | 7.000 5.06 | 10.08 2.21
0.917 1.58 | 4.000 2.53 | 7.083 5.06 | 10.17 2.21
1.000 1.58 | 4.083 2.53 | 7.167 5.06 | 10.25 2.21
1.083 1.58 | 4.167 2.53 | 7.250 5.06 | 10.33 1.26
1.167 1.58 | 4.250 2.53 | 7.333 3.79 | 10.42 1.26
1.250 1.58 | 4.333 3.79 | 7.417 3.79 | 10.50 1.26
1.333 1.58 | 4.417 3.79 | 7.500 3.79 | 10.58 1.26
1.417 1.58 | 4.500 3.79 | 7.583 3.79 | 10.67 1.26
1.500 1.58 | 4.583 3.79 | 7.667 3.79 | 10.75 1.26
1.583 1.58 | 4.667 3.79 | 7.750 3.79 | 10.83 1.26
1.667 1.58 | 4.750 3.79 | 7.833 3.79 | 10.92 1.26
1.750 1.58 | 4.833 5.06 | 7.917 3.79 | 11.00 1.26
1.833 1.58 | 4.917 5.06 | 8.000 3.79 | 11.08 1.26
1.917 1.58 | 5.000 5.06 | 8.083 3.79 | 11.17 1.26
2.000 1.58 | 5.083 5.06 | 8.167 3.79 | 11.25 1.26
2.083 1.58 | 5.167 5.06 | 8.250 3.79 | 11.33 1.26
2.167 1.58 | 5.250 5.06 | 8.333 2.21 | 11.42 1.26
2.250 1.58 | 5.333 7.58 | 8.417 2.21 | 11.50 1.26
2.333 1.90 | 5.417 7.58 | 8.500 2.21 | 11.58 1.26
2.417 1.90 | 5.500 7.58 | 8.583 2.21 | 11.67 1.26
2.500 1.90 | 5.583 7.58 | 8.667 2.21 | 11.75 1.26
2.583 1.90 | 5.667 7.58 | 8.750 2.21 | 11.83 1.26
2.667 1.90 | 5.750 7.58 | 8.833 2.21 | 11.92 1.26
2.750 1.90 | 5.833 30.33 | 8.917 2.21 | 12.00 1.26
2.833 1.90 | 5.917 30.33 | 9.000 2.21 | 12.08 1.26
2.917 1.90 | 6.000 30.33 | 9.083 2.21 | 12.17 1.26
3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26
3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 20.00
Storage Coeff. (min)= 2.82 (ii) 15.54 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.28 0.07

TOTALS

PEAK FLOW (cms)= 0.28 0.02 0.287 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 49.58
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
--- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0206) 1.640 0.287 6.25 49.58

OUTFLOW: ID= 1 (0022) 1.640 0.200 6.25 49.57

PEAK FLOW REDUCTION [Qout/Qin](%)= 69.50

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0165

CALIB
STANDHYD (0271) | Area (ha)= 2.67
ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.74	0.93
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92
over (min)	5.00	20.00
Storage Coeff. (min)=	3.27 (ii)	15.99 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00

Unit Hyd. peak (cms)= 0.27 0.07

TOTALS

PEAK FLOW (cms)= 0.40 0.03 0.422 (iii)

TIME TO PEAK (hrs)= 6.25 6.42 6.25

RUNOFF VOLUME (mm)= 62.19 15.49 45.84

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.98 0.25 0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.4710 0.0300

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0271) 2.670 0.422 6.25 45.84

OUTFLOW: ID= 1 (0023) 2.670 0.310 6.25 45.84

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.44

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0214

| CALIB |

| STANDHYD (0282)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.96 0.37

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 94.16 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26

```
      1.417   1.58 | 4.500   3.79 | 7.583   3.79 | 10.67   1.26
      1.500   1.58 | 4.583   3.79 | 7.667   3.79 | 10.75   1.26
      1.583   1.58 | 4.667   3.79 | 7.750   3.79 | 10.83   1.26
      1.667   1.58 | 4.750   3.79 | 7.833   3.79 | 10.92   1.26
      1.750   1.58 | 4.833   5.06 | 7.917   3.79 | 11.00   1.26
      1.833   1.58 | 4.917   5.06 | 8.000   3.79 | 11.08   1.26
      1.917   1.58 | 5.000   5.06 | 8.083   3.79 | 11.17   1.26
      2.000   1.58 | 5.083   5.06 | 8.167   3.79 | 11.25   1.26
      2.083   1.58 | 5.167   5.06 | 8.250   3.79 | 11.33   1.26
      2.167   1.58 | 5.250   5.06 | 8.333   2.21 | 11.42   1.26
      2.250   1.58 | 5.333   7.58 | 8.417   2.21 | 11.50   1.26
      2.333   1.90 | 5.417   7.58 | 8.500   2.21 | 11.58   1.26
      2.417   1.90 | 5.500   7.58 | 8.583   2.21 | 11.67   1.26
      2.500   1.90 | 5.583   7.58 | 8.667   2.21 | 11.75   1.26
      2.583   1.90 | 5.667   7.58 | 8.750   2.21 | 11.83   1.26
      2.667   1.90 | 5.750   7.58 | 8.833   2.21 | 11.92   1.26
      2.750   1.90 | 5.833  30.33 | 8.917   2.21 | 12.00   1.26
      2.833   1.90 | 5.917  30.33 | 9.000   2.21 | 12.08   1.26
      2.917   1.90 | 6.000  30.33 | 9.083   2.21 | 12.17   1.26
      3.000   1.90 | 6.083  83.41 | 9.167   2.21 | 12.25   1.26
      3.083   1.90 | 6.167  83.41 | 9.250   2.21 |

Max.Eff.Inten.(mm/hr)=     83.41       22.92
        over (min)        5.00       20.00
Storage Coeff.  (min)=      2.65 (ii)   15.37 (ii)
Unit Hyd. Tpeak (min)=      5.00       20.00
Unit Hyd. peak  (cms)=      0.29        0.07
                                *TOTALS*
PEAK FLOW      (cms)=      0.22        0.01        0.231 (iii)
TIME TO PEAK   (hrs)=      6.25        6.42        6.25
RUNOFF VOLUME  (mm)=      62.19       15.49       49.11
TOTAL RAINFALL (mm)=      63.19       63.19       63.19
RUNOFF COEFFICIENT  =      0.98        0.25        0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0024)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |  0.2530     0.0200

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0282)     1.330     0.231     6.25      49.11
  OUTFLOW: ID= 1 (  0024)     1.330     0.158     6.25      49.10

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 68.54
              TIME SHIFT OF PEAK FLOW         (min)=  0.00
              MAXIMUM  STORAGE   USED         (ha.m.)=  0.0136

--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0209)|   Area    (ha)=   1.23
|ID= 1 DT= 5.0 min |   Total Imp(%)=  73.00   Dir. Conn.(%)=  73.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.90         0.33
     Dep. Storage     (mm)=       1.00         1.50
```

Average Slope (%)= 1.00 2.00

Length (m)= 90.55 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 22.92

over (min) 5.00 20.00

Storage Coeff. (min)= 2.59 (ii) 15.31 (ii)

Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.29 0.07

TOTALS

PEAK FLOW (cms)= 0.21 0.01 0.216 (iii)

TIME TO PEAK (hrs)= 6.25 6.42 6.25

RUNOFF VOLUME (mm)= 62.19 15.49 49.57

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.98 0.25 0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.2410 0.0160

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0209)	1.230	0.216	6.25	49.57
OUTFLOW: ID= 1 (0025)	1.230	0.159	6.25	49.56

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.86

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0114

| CALIB |

| STANDHYD (0210)| Area (ha)= 0.90

|ID= 1 DT= 5.0 min | Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.62	0.28
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	77.46	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26

2.750 1.90 | 5.833 30.33 | 8.917 2.21 | 12.00 1.26
2.833 1.90 | 5.917 30.33 | 9.000 2.21 | 12.08 1.26
2.917 1.90 | 6.000 30.33 | 9.083 2.21 | 12.17 1.26
3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26
3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.41 47.61
over (min) 5.00 15.00
Storage Coeff. (min)= 2.36 (ii) 11.85 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.09
TOTALS
PEAK FLOW (cms)= 0.14 0.02 0.164 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 62.19 29.45 52.03
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.47 0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
---------- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0210) 0.900 0.164 6.25 52.03
OUTFLOW: ID= 1 (0026) 0.900 0.141 6.25 52.03

PEAK FLOW REDUCTION [Qout/Qin](%)= 86.07
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0058

| CALIB |
| STANDHYD (0203)| Area (ha)= 4.48
|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 3.18 1.30
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 172.82 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.90 | 6.250 83.41 | 9.33 2.21
0.167 0.00 | 3.250 1.90 | 6.333 11.37 | 9.42 2.21
0.250 0.00 | 3.333 2.53 | 6.417 11.37 | 9.50 2.21
0.333 1.58 | 3.417 2.53 | 6.500 11.37 | 9.58 2.21
0.417 1.58 | 3.500 2.53 | 6.583 11.37 | 9.67 2.21
0.500 1.58 | 3.583 2.53 | 6.667 11.37 | 9.75 2.21

0.583 1.58 | 3.667 2.53 | 6.750 11.37 | 9.83 2.21
0.667 1.58 | 3.750 2.53 | 6.833 5.06 | 9.92 2.21
0.750 1.58 | 3.833 2.53 | 6.917 5.06 | 10.00 2.21
0.833 1.58 | 3.917 2.53 | 7.000 5.06 | 10.08 2.21
0.917 1.58 | 4.000 2.53 | 7.083 5.06 | 10.17 2.21
1.000 1.58 | 4.083 2.53 | 7.167 5.06 | 10.25 2.21
1.083 1.58 | 4.167 2.53 | 7.250 5.06 | 10.33 1.26
1.167 1.58 | 4.250 2.53 | 7.333 3.79 | 10.42 1.26
1.250 1.58 | 4.333 3.79 | 7.417 3.79 | 10.50 1.26
1.333 1.58 | 4.417 3.79 | 7.500 3.79 | 10.58 1.26
1.417 1.58 | 4.500 3.79 | 7.583 3.79 | 10.67 1.26
1.500 1.58 | 4.583 3.79 | 7.667 3.79 | 10.75 1.26
1.583 1.58 | 4.667 3.79 | 7.750 3.79 | 10.83 1.26
1.667 1.58 | 4.750 3.79 | 7.833 3.79 | 10.92 1.26
1.750 1.58 | 4.833 5.06 | 7.917 3.79 | 11.00 1.26
1.833 1.58 | 4.917 5.06 | 8.000 3.79 | 11.08 1.26
1.917 1.58 | 5.000 5.06 | 8.083 3.79 | 11.17 1.26
2.000 1.58 | 5.083 5.06 | 8.167 3.79 | 11.25 1.26
2.083 1.58 | 5.167 5.06 | 8.250 3.79 | 11.33 1.26
2.167 1.58 | 5.250 5.06 | 8.333 2.21 | 11.42 1.26
2.250 1.58 | 5.333 7.58 | 8.417 2.21 | 11.50 1.26
2.333 1.90 | 5.417 7.58 | 8.500 2.21 | 11.58 1.26
2.417 1.90 | 5.500 7.58 | 8.583 2.21 | 11.67 1.26
2.500 1.90 | 5.583 7.58 | 8.667 2.21 | 11.75 1.26
2.583 1.90 | 5.667 7.58 | 8.750 2.21 | 11.83 1.26
2.667 1.90 | 5.750 7.58 | 8.833 2.21 | 11.92 1.26
2.750 1.90 | 5.833 30.33 | 8.917 2.21 | 12.00 1.26
2.833 1.90 | 5.917 30.33 | 9.000 2.21 | 12.08 1.26
2.917 1.90 | 6.000 30.33 | 9.083 2.21 | 12.17 1.26
3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26
3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.41 30.49
over (min) 5.00 20.00

Storage Coeff. (min)= 3.81 (ii) 15.16 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.25 0.07

TOTALS

PEAK FLOW (cms)= 0.73 0.06 0.772 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 20.37 50.06
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.32 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0202)| Area (ha)= 0.80
|ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.40 0.40
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 73.03 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 34.62
over (min) 5.00 15.00
Storage Coeff. (min)= 2.27 (ii) 13.06 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.09 0.02 0.114 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 62.19 23.00 42.59
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.36 0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0045)					
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0202):	0.80	0.114	6.25	42.59

+ ID2= 2 (0203): 4.48 0.772 6.25 50.06

==========

ID = 3 (0045): 5.28 0.885 6.25 48.93

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0027)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.7040 0.1100

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0045)	5.280	0.885	6.25	48.93
OUTFLOW: ID= 1 (0027)	5.280	0.448	6.33	48.92

PEAK FLOW REDUCTION [Qout/Qin](%)= 50.65

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0712

| CALIB |

| STANDHYD (0241)| Area (ha)= 3.10

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.05	1.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	143.76	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26

2.333 1.90 | 5.417 7.58 | 8.500 2.21 | 11.58 1.26
2.417 1.90 | 5.500 7.58 | 8.583 2.21 | 11.67 1.26
2.500 1.90 | 5.583 7.58 | 8.667 2.21 | 11.75 1.26
2.583 1.90 | 5.667 7.58 | 8.750 2.21 | 11.83 1.26
2.667 1.90 | 5.750 7.58 | 8.833 2.21 | 11.92 1.26
2.750 1.90 | 5.833 30.33 | 8.917 2.21 | 12.00 1.26
2.833 1.90 | 5.917 30.33 | 9.000 2.21 | 12.08 1.26
2.917 1.90 | 6.000 30.33 | 9.083 2.21 | 12.17 1.26
3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26
3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 20.00
Storage Coeff. (min)= 3.42 (ii) 16.14 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.26 0.06

TOTALS

PEAK FLOW (cms)= 0.47 0.04 0.496 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 46.31
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1320 0.1200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0241) 3.100 0.496 6.25 46.31
OUTFLOW: ID= 1 (0028) 3.100 0.081 6.75 46.24

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.33
TIME SHIFT OF PEAK FLOW (min)= 30.00
MAXIMUM STORAGE USED (ha.m.)= 0.0737

| CALIB |
| STANDHYD (0281)| Area (ha)= 0.97
|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.64 0.33
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 80.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.90 | 6.250 83.41 | 9.33 2.21

```
0.167   0.00 | 3.250   1.90 | 6.333  11.37 |  9.42   2.21
0.250   0.00 | 3.333   2.53 | 6.417  11.37 |  9.50   2.21
0.333   1.58 | 3.417   2.53 | 6.500  11.37 |  9.58   2.21
0.417   1.58 | 3.500   2.53 | 6.583  11.37 |  9.67   2.21
0.500   1.58 | 3.583   2.53 | 6.667  11.37 |  9.75   2.21
0.583   1.58 | 3.667   2.53 | 6.750  11.37 |  9.83   2.21
0.667   1.58 | 3.750   2.53 | 6.833   5.06 |  9.92   2.21
0.750   1.58 | 3.833   2.53 | 6.917   5.06 | 10.00   2.21
0.833   1.58 | 3.917   2.53 | 7.000   5.06 | 10.08   2.21
0.917   1.58 | 4.000   2.53 | 7.083   5.06 | 10.17   2.21
1.000   1.58 | 4.083   2.53 | 7.167   5.06 | 10.25   2.21
1.083   1.58 | 4.167   2.53 | 7.250   5.06 | 10.33   1.26
1.167   1.58 | 4.250   2.53 | 7.333   3.79 | 10.42   1.26
1.250   1.58 | 4.333   3.79 | 7.417   3.79 | 10.50   1.26
1.333   1.58 | 4.417   3.79 | 7.500   3.79 | 10.58   1.26
1.417   1.58 | 4.500   3.79 | 7.583   3.79 | 10.67   1.26
1.500   1.58 | 4.583   3.79 | 7.667   3.79 | 10.75   1.26
1.583   1.58 | 4.667   3.79 | 7.750   3.79 | 10.83   1.26
1.667   1.58 | 4.750   3.79 | 7.833   3.79 | 10.92   1.26
1.750   1.58 | 4.833   5.06 | 7.917   3.79 | 11.00   1.26
1.833   1.58 | 4.917   5.06 | 8.000   3.79 | 11.08   1.26
1.917   1.58 | 5.000   5.06 | 8.083   3.79 | 11.17   1.26
2.000   1.58 | 5.083   5.06 | 8.167   3.79 | 11.25   1.26
2.083   1.58 | 5.167   5.06 | 8.250   3.79 | 11.33   1.26
2.167   1.58 | 5.250   5.06 | 8.333   2.21 | 11.42   1.26
2.250   1.58 | 5.333   7.58 | 8.417   2.21 | 11.50   1.26
2.333   1.90 | 5.417   7.58 | 8.500   2.21 | 11.58   1.26
2.417   1.90 | 5.500   7.58 | 8.583   2.21 | 11.67   1.26
2.500   1.90 | 5.583   7.58 | 8.667   2.21 | 11.75   1.26
2.583   1.90 | 5.667   7.58 | 8.750   2.21 | 11.83   1.26
2.667   1.90 | 5.750   7.58 | 8.833   2.21 | 11.92   1.26
2.750   1.90 | 5.833  30.33 | 8.917   2.21 | 12.00   1.26
2.833   1.90 | 5.917  30.33 | 9.000   2.21 | 12.08   1.26
2.917   1.90 | 6.000  30.33 | 9.083   2.21 | 12.17   1.26
3.000   1.90 | 6.083  83.41 | 9.167   2.21 | 12.25   1.26
3.083   1.90 | 6.167  83.41 | 9.250   2.21 |

 Max.Eff.Inten.(mm/hr)=      83.41       22.92
          over (min)        5.00       20.00
 Storage Coeff.  (min)=      2.41 (ii)   15.13 (ii)
 Unit Hyd. Tpeak (min)=      5.00       20.00
 Unit Hyd. peak  (cms)=      0.30        0.07
                                  *TOTALS*
 PEAK FLOW      (cms)=       0.15        0.01         0.156 (iii)
 TIME TO PEAK   (hrs)=       6.25        6.42         6.25
 RUNOFF VOLUME  (mm)=       62.19       15.49        46.30
 TOTAL RAINFALL (mm)=       63.19       63.19        63.19
 RUNOFF COEFFICIENT  =       0.98        0.25         0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
    (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
   (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0030)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |  (cms)     (ha.m.)
                        0.0000     0.0000    |  0.1600      0.0130

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0281)      0.970      0.156      6.25      46.30
```

OUTFLOW: ID= 1 (0030) 0.970 0.106 6.25 46.29

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.84
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0094

****

** SIMULATION:025yr 12hr 15min SCS Type II (MTO) **

****

| READ STORM | Filename: C:\Users\RObeid\AppD
| | ata\Local\Temp\
| | f159238a-5f00-4f05-ac5e-db202b2121bc\011a1172
| Ptotal= 73.70 mm | Comments: 025yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	3.25	2.95	6.50	13.27	9.75	2.58
0.25	1.84	3.50	2.95	6.75	5.90	10.00	2.58
0.50	1.84	3.75	2.95	7.00	5.90	10.25	1.47
0.75	1.84	4.00	2.95	7.25	4.42	10.50	1.47
1.00	1.84	4.25	4.42	7.50	4.42	10.75	1.47
1.25	1.84	4.50	4.42	7.75	4.42	11.00	1.47
1.50	1.84	4.75	5.90	8.00	4.42	11.25	1.47
1.75	1.84	5.00	5.90	8.25	2.58	11.50	1.47
2.00	1.84	5.25	8.84	8.50	2.58	11.75	1.47
2.25	2.21	5.50	8.84	8.75	2.58	12.00	1.47
2.50	2.21	5.75	35.38	9.00	2.58		
2.75	2.21	6.00	97.28	9.25	2.58		
3.00	2.21	6.25	13.27	9.50	2.58		

| CALIB |
| STANDHYD (0242)| Area (ha)= 0.72
|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.50	0.22
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	69.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47

```
      1.333   1.84 | 4.417   4.42 | 7.500   4.42 | 10.58   1.47
      1.417   1.84 | 4.500   4.42 | 7.583   4.42 | 10.67   1.47
      1.500   1.84 | 4.583   4.42 | 7.667   4.42 | 10.75   1.47
      1.583   1.84 | 4.667   4.42 | 7.750   4.42 | 10.83   1.47
      1.667   1.84 | 4.750   4.42 | 7.833   4.42 | 10.92   1.47
      1.750   1.84 | 4.833   5.90 | 7.917   4.42 | 11.00   1.47
      1.833   1.84 | 4.917   5.90 | 8.000   4.42 | 11.08   1.47
      1.917   1.84 | 5.000   5.90 | 8.083   4.42 | 11.17   1.47
      2.000   1.84 | 5.083   5.90 | 8.167   4.42 | 11.25   1.47
      2.083   1.84 | 5.167   5.90 | 8.250   4.42 | 11.33   1.47
      2.167   1.84 | 5.250   5.90 | 8.333   2.58 | 11.42   1.47
      2.250   1.84 | 5.333   8.84 | 8.417   2.58 | 11.50   1.47
      2.333   2.21 | 5.417   8.84 | 8.500   2.58 | 11.58   1.47
      2.417   2.21 | 5.500   8.84 | 8.583   2.58 | 11.67   1.47
      2.500   2.21 | 5.583   8.84 | 8.667   2.58 | 11.75   1.47
      2.583   2.21 | 5.667   8.84 | 8.750   2.58 | 11.83   1.47
      2.667   2.21 | 5.750   8.84 | 8.833   2.58 | 11.92   1.47
      2.750   2.21 | 5.833  35.38 | 8.917   2.58 | 12.00   1.47
      2.833   2.21 | 5.917  35.38 | 9.000   2.58 | 12.08   1.47
      2.917   2.21 | 6.000  35.38 | 9.083   2.58 | 12.17   1.47
      3.000   2.21 | 6.083  97.28 | 9.167   2.58 | 12.25   1.47
      3.083   2.21 | 6.167  97.28 | 9.250   2.58 |

Max.Eff.Inten.(mm/hr)=     97.28       30.22
        over (min)        5.00        15.00
Storage Coeff.  (min)=      2.07 (ii)   13.46 (ii)
Unit Hyd. Tpeak (min)=      5.00        15.00
Unit Hyd. peak  (cms)=      0.31        0.08
                                  *TOTALS*
PEAK FLOW      (cms)=       0.14        0.01         0.146 (iii)
TIME TO PEAK   (hrs)=       6.25        6.33         6.25
RUNOFF VOLUME  (mm)=       72.70       20.35        56.99
TOTAL RAINFALL (mm)=       73.70       73.70        73.70
RUNOFF COEFFICIENT  =       0.99        0.28         0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| RESERVOIR(  0020)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |  0.0600      0.0240

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0242)      0.720      0.146      6.25      56.99
  OUTFLOW: ID= 1 (  0020)      0.720      0.042      6.33      56.86

            PEAK   FLOW   REDUCTION [Qout/Qin](%)= 28.58
            TIME SHIFT OF PEAK FLOW        (min)=  5.00
            MAXIMUM  STORAGE   USED        (ha.m.)=  0.0167

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| CALIB           |
| STANDHYD (  0205)|   Area    (ha)=   0.41
|ID= 1 DT= 5.0 min |   Total Imp(%)=  73.00   Dir. Conn.(%)=  73.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
    Surface Area     (ha)=       0.30         0.11
```

Dep. Storage	(mm)=	1.00 1.50
Average Slope	(%)=	1.00 2.00
Length	(m)=	52.28 40.00
Mannings n	=	0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	32.71
over (min)	5.00	10.00
Storage Coeff. (min)=	1.75 (ii)	6.54 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.32	0.14
	TOTALS	
PEAK FLOW (cms)=	0.08	0.01 0.089 (iii)
TIME TO PEAK (hrs)=	6.25	6.25 6.25
RUNOFF VOLUME (mm)=	72.70	20.35 58.55
TOTAL RAINFALL (mm)=	73.70	73.70 73.70
RUNOFF COEFFICIENT =	0.99	0.28 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0021)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0880 0.0100

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0205)	0.410	0.089	6.25	58.55
OUTFLOW: ID= 1 (0021)	0.410	0.052	6.33	58.50

PEAK FLOW REDUCTION [Qout/Qin](%)= 58.95

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0064

| CALIB |

| STANDHYD (0206)| Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.20	0.44
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47

2.667 2.21 | 5.750 8.84 | 8.833 2.58 | 11.92 1.47
2.750 2.21 | 5.833 35.38 | 8.917 2.58 | 12.00 1.47
2.833 2.21 | 5.917 35.38 | 9.000 2.58 | 12.08 1.47
2.917 2.21 | 6.000 35.38 | 9.083 2.58 | 12.17 1.47
3.000 2.21 | 6.083 97.28 | 9.167 2.58 | 12.25 1.47
3.083 2.21 | 6.167 97.28 | 9.250 2.58 |

Max.Eff.Inten.(mm/hr)= 97.28 32.71
over (min) 5.00 10.00
Storage Coeff. (min)= 2.65 (ii) 7.45 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.29 0.13

TOTALS

PEAK FLOW (cms)= 0.32 0.03 0.354 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 72.70 20.35 58.56
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.28 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0206) 1.640 0.354 6.25 58.56
OUTFLOW: ID= 1 (0022) 1.640 0.243 6.25 58.55

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.81
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0201

| CALIB |
| STANDHYD (0271)| Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.74 0.93
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 133.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 2.21 | 6.250 97.28 | 9.33 2.58
0.167 0.00 | 3.250 2.21 | 6.333 13.27 | 9.42 2.58
0.250 0.00 | 3.333 2.95 | 6.417 13.27 | 9.50 2.58
0.333 1.84 | 3.417 2.95 | 6.500 13.27 | 9.58 2.58
0.417 1.84 | 3.500 2.95 | 6.583 13.27 | 9.67 2.58

```
0.500   1.84 | 3.583   2.95 | 6.667   13.27 |  9.75   2.58
0.583   1.84 | 3.667   2.95 | 6.750   13.27 |  9.83   2.58
0.667   1.84 | 3.750   2.95 | 6.833    5.90 |  9.92   2.58
0.750   1.84 | 3.833   2.95 | 6.917    5.90 | 10.00   2.58
0.833   1.84 | 3.917   2.95 | 7.000    5.90 | 10.08   2.58
0.917   1.84 | 4.000   2.95 | 7.083    5.90 | 10.17   2.58
1.000   1.84 | 4.083   2.95 | 7.167    5.90 | 10.25   2.58
1.083   1.84 | 4.167   2.95 | 7.250    5.90 | 10.33   1.47
1.167   1.84 | 4.250   2.95 | 7.333    4.42 | 10.42   1.47
1.250   1.84 | 4.333   4.42 | 7.417    4.42 | 10.50   1.47
1.333   1.84 | 4.417   4.42 | 7.500    4.42 | 10.58   1.47
1.417   1.84 | 4.500   4.42 | 7.583    4.42 | 10.67   1.47
1.500   1.84 | 4.583   4.42 | 7.667    4.42 | 10.75   1.47
1.583   1.84 | 4.667   4.42 | 7.750    4.42 | 10.83   1.47
1.667   1.84 | 4.750   4.42 | 7.833    4.42 | 10.92   1.47
1.750   1.84 | 4.833   5.90 | 7.917    4.42 | 11.00   1.47
1.833   1.84 | 4.917   5.90 | 8.000    4.42 | 11.08   1.47
1.917   1.84 | 5.000   5.90 | 8.083    4.42 | 11.17   1.47
2.000   1.84 | 5.083   5.90 | 8.167    4.42 | 11.25   1.47
2.083   1.84 | 5.167   5.90 | 8.250    4.42 | 11.33   1.47
2.167   1.84 | 5.250   5.90 | 8.333    2.58 | 11.42   1.47
2.250   1.84 | 5.333   8.84 | 8.417    2.58 | 11.50   1.47
2.333   2.21 | 5.417   8.84 | 8.500    2.58 | 11.58   1.47
2.417   2.21 | 5.500   8.84 | 8.583    2.58 | 11.67   1.47
2.500   2.21 | 5.583   8.84 | 8.667    2.58 | 11.75   1.47
2.583   2.21 | 5.667   8.84 | 8.750    2.58 | 11.83   1.47
2.667   2.21 | 5.750   8.84 | 8.833    2.58 | 11.92   1.47
2.750   2.21 | 5.833  35.38 | 8.917    2.58 | 12.00   1.47
2.833   2.21 | 5.917  35.38 | 9.000    2.58 | 12.08   1.47
2.917   2.21 | 6.000  35.38 | 9.083    2.58 | 12.17   1.47
3.000   2.21 | 6.083  97.28 | 9.167    2.58 | 12.25   1.47
3.083   2.21 | 6.167  97.28 | 9.250    2.58 |

Max.Eff.Inten.(mm/hr)=     97.28       30.22
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          over (min)        5.00        15.00
    Storage Coeff.  (min)=      3.07 (ii)   14.46 (ii)
    Unit Hyd. Tpeak (min)=      5.00        15.00
    Unit Hyd. peak  (cms)=      0.27        0.08
                                  *TOTALS*
    PEAK FLOW      (cms)=       0.47        0.05        0.507 (iii)
    TIME TO PEAK   (hrs)=       6.25        6.33        6.25
    RUNOFF VOLUME  (mm)=       72.70       20.35        54.37
    TOTAL RAINFALL (mm)=       73.70       73.70        73.70
    RUNOFF COEFFICIENT  =      0.99        0.28         0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---------------------------------------------------------------------------
--------------------
| RESERVOIR(  0023)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |  0.4710     0.0300

                            AREA     QPEAK     TPEAK       R.V.
                            (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0271)     2.670      0.507      6.25      54.37
  OUTFLOW: ID= 1 (  0023)     2.670      0.371      6.25      54.37

          PEAK   FLOW   REDUCTION [Qout/Qin](%)= 73.11
          TIME SHIFT OF PEAK FLOW        (min)=  0.00
```

MAXIMUM STORAGE USED (ha.m.)= 0.0257

CALIB
STANDHYD (0282)| Area (ha)= 1.33
ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.96	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	32.71	
over (min)	5.00	10.00	
Storage Coeff. (min)=	2.49 (ii)	7.38 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.29	0.13	
		TOTALS	
PEAK FLOW (cms)=	0.26	0.03	0.285 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	58.04

TOTAL RAINFALL (mm)= 73.70 73.70 73.70

RUNOFF COEFFICIENT = 0.99 0.28 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0024)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2530 0.0200

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0282)	1.330	0.285	6.25	58.04
OUTFLOW: ID= 1 (0024)	1.330	0.193	6.25	58.03

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.78
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0166

| CALIB |
| STANDHYD (0209)| Area (ha)= 1.23
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.90	0.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47

1.833 1.84 | 4.917 5.90 | 8.000 4.42 | 11.08 1.47
1.917 1.84 | 5.000 5.90 | 8.083 4.42 | 11.17 1.47
2.000 1.84 | 5.083 5.90 | 8.167 4.42 | 11.25 1.47
2.083 1.84 | 5.167 5.90 | 8.250 4.42 | 11.33 1.47
2.167 1.84 | 5.250 5.90 | 8.333 2.58 | 11.42 1.47
2.250 1.84 | 5.333 8.84 | 8.417 2.58 | 11.50 1.47
2.333 2.21 | 5.417 8.84 | 8.500 2.58 | 11.58 1.47
2.417 2.21 | 5.500 8.84 | 8.583 2.58 | 11.67 1.47
2.500 2.21 | 5.583 8.84 | 8.667 2.58 | 11.75 1.47
2.583 2.21 | 5.667 8.84 | 8.750 2.58 | 11.83 1.47
2.667 2.21 | 5.750 8.84 | 8.833 2.58 | 11.92 1.47
2.750 2.21 | 5.833 35.38 | 8.917 2.58 | 12.00 1.47
2.833 2.21 | 5.917 35.38 | 9.000 2.58 | 12.08 1.47
2.917 2.21 | 6.000 35.38 | 9.083 2.58 | 12.17 1.47
3.000 2.21 | 6.083 97.28 | 9.167 2.58 | 12.25 1.47
3.083 2.21 | 6.167 97.28 | 9.250 2.58 |

Max.Eff.Inten.(mm/hr)= 97.28 32.71
over (min) 5.00 10.00
Storage Coeff. (min)= 2.43 (ii) 7.23 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.30 0.14
TOTALS
PEAK FLOW (cms)= 0.24 0.02 0.266 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 72.70 20.35 58.56
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.28 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2410 0.0160

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0209) 1.230 0.266 6.25 58.56
OUTFLOW: ID= 1 (0025) 1.230 0.194 6.25 58.56

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.11
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0140

| CALIB |
| STANDHYD (0210)| Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.62 0.28
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 77.46 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.28 60.09
over (min) 5.00 15.00
Storage Coeff. (min)= 2.22 (ii) 10.87 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.09

TOTALS

PEAK FLOW (cms)= 0.17 0.03 0.195 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 72.70 37.31 61.72
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.51 0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE

```
---------- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 ( 0210) 0.900 0.195 6.25 61.72
OUTFLOW: ID= 1 ( 0026) 0.900 0.168 6.25 61.72

PEAK FLOW REDUCTION [Qout/Qin](%)= 85.96
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0069

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----------
| CALIB |
| STANDHYD ( 0203)| Area (ha)= 4.48
|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00
----------
IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 3.18 1.30
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 172.82 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 2.21 | 6.250 97.28 | 9.33 2.58
0.167 0.00 | 3.250 2.21 | 6.333 13.27 | 9.42 2.58
0.250 0.00 | 3.333 2.95 | 6.417 13.27 | 9.50 2.58
0.333 1.84 | 3.417 2.95 | 6.500 13.27 | 9.58 2.58
0.417 1.84 | 3.500 2.95 | 6.583 13.27 | 9.67 2.58
0.500 1.84 | 3.583 2.95 | 6.667 13.27 | 9.75 2.58
0.583 1.84 | 3.667 2.95 | 6.750 13.27 | 9.83 2.58
0.667 1.84 | 3.750 2.95 | 6.833 5.90 | 9.92 2.58
0.750 1.84 | 3.833 2.95 | 6.917 5.90 | 10.00 2.58
0.833 1.84 | 3.917 2.95 | 7.000 5.90 | 10.08 2.58
0.917 1.84 | 4.000 2.95 | 7.083 5.90 | 10.17 2.58
1.000 1.84 | 4.083 2.95 | 7.167 5.90 | 10.25 2.58
1.083 1.84 | 4.167 2.95 | 7.250 5.90 | 10.33 1.47
1.167 1.84 | 4.250 2.95 | 7.333 4.42 | 10.42 1.47
1.250 1.84 | 4.333 4.42 | 7.417 4.42 | 10.50 1.47
1.333 1.84 | 4.417 4.42 | 7.500 4.42 | 10.58 1.47
1.417 1.84 | 4.500 4.42 | 7.583 4.42 | 10.67 1.47
1.500 1.84 | 4.583 4.42 | 7.667 4.42 | 10.75 1.47
1.583 1.84 | 4.667 4.42 | 7.750 4.42 | 10.83 1.47
1.667 1.84 | 4.750 4.42 | 7.833 4.42 | 10.92 1.47
1.750 1.84 | 4.833 5.90 | 7.917 4.42 | 11.00 1.47
1.833 1.84 | 4.917 5.90 | 8.000 4.42 | 11.08 1.47
1.917 1.84 | 5.000 5.90 | 8.083 4.42 | 11.17 1.47
2.000 1.84 | 5.083 5.90 | 8.167 4.42 | 11.25 1.47
2.083 1.84 | 5.167 5.90 | 8.250 4.42 | 11.33 1.47
2.167 1.84 | 5.250 5.90 | 8.333 2.58 | 11.42 1.47
2.250 1.84 | 5.333 8.84 | 8.417 2.58 | 11.50 1.47
2.333 2.21 | 5.417 8.84 | 8.500 2.58 | 11.58 1.47
2.417 2.21 | 5.500 8.84 | 8.583 2.58 | 11.67 1.47
2.500 2.21 | 5.583 8.84 | 8.667 2.58 | 11.75 1.47
2.583 2.21 | 5.667 8.84 | 8.750 2.58 | 11.83 1.47
2.667 2.21 | 5.750 8.84 | 8.833 2.58 | 11.92 1.47
2.750 2.21 | 5.833 35.38 | 8.917 2.58 | 12.00 1.47
2.833 2.21 | 5.917 35.38 | 9.000 2.58 | 12.08 1.47
2.917 2.21 | 6.000 35.38 | 9.083 2.58 | 12.17 1.47
3.000 2.21 | 6.083 97.28 | 9.167 2.58 | 12.25 1.47
3.083 2.21 | 6.167 97.28 | 9.250 2.58 |
```

Max.Eff.Inten.(mm/hr)= 97.28 42.62

over (min) 5.00 10.00

Storage Coeff. (min)= 3.59 (ii) 8.57 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.26 0.12

TOTALS

PEAK FLOW (cms)= 0.85 0.11 0.965 (iii)

TIME TO PEAK (hrs)= 6.25 6.25 6.25

RUNOFF VOLUME (mm)= 72.70 26.42 59.28

TOTAL RAINFALL (mm)= 73.70 73.70 73.70

RUNOFF COEFFICIENT = 0.99 0.36 0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 67.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0202)| Area (ha)= 0.80

|ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.40 0.40

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 73.03 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47

```
          2.417   2.21 | 5.500   8.84 | 8.583   2.58 | 11.67   1.47
          2.500   2.21 | 5.583   8.84 | 8.667   2.58 | 11.75   1.47
          2.583   2.21 | 5.667   8.84 | 8.750   2.58 | 11.83   1.47
          2.667   2.21 | 5.750   8.84 | 8.833   2.58 | 11.92   1.47
          2.750   2.21 | 5.833  35.38 | 8.917   2.58 | 12.00   1.47
          2.833   2.21 | 5.917  35.38 | 9.000   2.58 | 12.08   1.47
          2.917   2.21 | 6.000  35.38 | 9.083   2.58 | 12.17   1.47
          3.000   2.21 | 6.083  97.28 | 9.167   2.58 | 12.25   1.47
          3.083   2.21 | 6.167  97.28 | 9.250   2.58 |

   Max.Eff.Inten.(mm/hr)=     97.28       47.83
           over (min)        5.00       15.00
   Storage Coeff.  (min)=     2.14 (ii)   11.62 (ii)
   Unit Hyd. Tpeak (min)=     5.00       15.00
   Unit Hyd. peak  (cms)=     0.31        0.09
                                    *TOTALS*
   PEAK FLOW      (cms)=      0.11        0.03        0.137 (iii)
   TIME TO PEAK   (hrs)=      6.25        6.33        6.25
   RUNOFF VOLUME  (mm)=      72.70       29.63       51.15
   TOTAL RAINFALL (mm)=      73.70       73.70       73.70
   RUNOFF COEFFICIENT  =      0.99        0.40        0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  71.0    Ia = Dep. Storage  (Above)
    (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
   (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0045)|
| 1 +  2 =  3   |       AREA   QPEAK   TPEAK    R.V.
--------------------       (ha)   (cms)   (hrs)    (mm)
      ID1= 1 (  0202):    0.80   0.137    6.25   51.15
    + ID2= 2 (  0203):    4.48   0.965    6.25   59.28
     ================================================
      ID = 3 (  0045):    5.28   1.103    6.25   58.05

   NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| RESERVOIR(  0027)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min    |    OUTFLOW   STORAGE  | OUTFLOW   STORAGE
--------------------      (cms)    (ha.m.) |  (cms)    (ha.m.)
                        0.0000    0.0000  |  0.7040    0.1100

                          AREA    QPEAK    TPEAK      R.V.
                          (ha)    (cms)    (hrs)      (mm)
  INFLOW : ID= 2 (  0045)    5.280    1.103     6.25     58.05
  OUTFLOW: ID= 1 (  0027)    5.280    0.553     6.33     58.04

            PEAK  FLOW  REDUCTION [Qout/Qin](%)= 50.17
            TIME SHIFT OF PEAK FLOW        (min)=  5.00
            MAXIMUM  STORAGE  USED       (ha.m.)=  0.0877

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--------------------
| CALIB           |
| STANDHYD (  0241)|  Area    (ha)=   3.10
|ID= 1 DT= 5.0 min |  Total Imp(%)=  66.00   Dir. Conn.(%)=  66.00
--------------------
                       IMPERVIOUS    PERVIOUS (i)
    Surface Area    (ha)=      2.05        1.05
    Dep. Storage    (mm)=      1.00        1.50
```

Average Slope (%)=	1.00	2.00
Length (m)=	143.76	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	30.22	
over (min)	5.00	15.00	
Storage Coeff. (min)=	3.21 (ii)	14.60 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.27	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.55	0.05	0.595 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	54.90
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.1320 0.1200

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0241)	3.100	0.595	6.25	54.90
OUTFLOW: ID= 1 (0028)	3.100	0.096	6.75	54.83

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.17

TIME SHIFT OF PEAK FLOW (min)= 30.00

MAXIMUM STORAGE USED (ha.m.)= 0.0875

| CALIB |

| STANDHYD (0281)| Area (ha)= 0.97

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.64	0.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47

```
          2.750    2.21 | 5.833   35.38 | 8.917    2.58 | 12.00    1.47
          2.833    2.21 | 5.917   35.38 | 9.000    2.58 | 12.08    1.47
          2.917    2.21 | 6.000   35.38 | 9.083    2.58 | 12.17    1.47
          3.000    2.21 | 6.083   97.28 | 9.167    2.58 | 12.25    1.47
          3.083    2.21 | 6.167   97.28 | 9.250    2.58 |

    Max.Eff.Inten.(mm/hr)=     97.28       30.22
          over (min)       5.00        15.00
    Storage Coeff.  (min)=      2.27 (ii)   13.66 (ii)
    Unit Hyd. Tpeak (min)=      5.00        15.00
    Unit Hyd. peak  (cms)=      0.30        0.08
                                      *TOTALS*
    PEAK FLOW      (cms)=       0.17        0.02         0.188 (iii)
    TIME TO PEAK    (hrs)=      6.25        6.33         6.25
    RUNOFF VOLUME    (mm)=     72.70       20.35         54.89
    TOTAL RAINFALL   (mm)=     73.70       73.70         73.70
    RUNOFF COEFFICIENT   =      0.99        0.28         0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

---------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0030)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)    (ha.m.)   |  (cms)    (ha.m.)
                       0.0000     0.0000    |  0.1600     0.0130
```

```
                          AREA     QPEAK     TPEAK      R.V.
                          (ha)     (cms)     (hrs)      (mm)
  INFLOW : ID= 2 (  0281)      0.970      0.188      6.25      54.89
  OUTFLOW: ID= 1 (  0030)      0.970      0.126      6.25      54.88

               PEAK   FLOW   REDUCTION [Qout/Qin](%)= 67.39
               TIME SHIFT OF PEAK FLOW         (min)=  0.00
               MAXIMUM  STORAGE   USED        (ha.m.)=  0.0112

---------------------------------------------------------------------------------
*****************************************************
** SIMULATION:050yr 12hr 15min SCS Type II (MTO) **
*****************************************************

--------------------
|   READ STORM    |   Filename: C:\Users\RObeid\AppD
|                 |             ata\Local\Temp\
|                 |             f159238a-5f00-4f05-ac5e-db202b2121bc\16787c54
| Ptotal= 81.65 mm |   Comments: 050yr 12hr 15min SCS Type II (MTO)
--------------------
              TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
               hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
              0.00    0.00 |  3.25    3.27 |  6.50   14.70 |  9.75    2.86
              0.25    2.04 |  3.50    3.27 |  6.75    6.53 | 10.00    2.86
              0.50    2.04 |  3.75    3.27 |  7.00    6.53 | 10.25    1.63
              0.75    2.04 |  4.00    3.27 |  7.25    4.90 | 10.50    1.63
              1.00    2.04 |  4.25    4.90 |  7.50    4.90 | 10.75    1.63
              1.25    2.04 |  4.50    4.90 |  7.75    4.90 | 11.00    1.63
              1.50    2.04 |  4.75    6.53 |  8.00    4.90 | 11.25    1.63
              1.75    2.04 |  5.00    6.53 |  8.25    2.86 | 11.50    1.63
              2.00    2.04 |  5.25    9.80 |  8.50    2.86 | 11.75    1.63
              2.25    2.45 |  5.50    9.80 |  8.75    2.86 | 12.00    1.63
              2.50    2.45 |  5.75   39.19 |  9.00    2.86 |
              2.75    2.45 |  6.00  107.78 |  9.25    2.86 |
```

3.00 2.45 | 6.25 14.70 | 9.50 2.86 |

CALIB
STANDHYD (0242)| Area (ha)= 0.72
ID= 1 DT= 5.0 min	Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.50	0.22
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	69.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	39.11	
over (min)	5.00	10.00	
Storage Coeff. (min)=	1.99 (ii)	6.87 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.31	0.14	
		TOTALS	
PEAK FLOW (cms)=	0.15	0.02	0.169 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25

RUNOFF VOLUME (mm)= 80.65 24.33 63.75

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 0.30 0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0020)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0600 0.0240

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0242)	0.720	0.169	6.25	63.75
OUTFLOW: ID= 1 (0020)	0.720	0.048	6.33	63.61

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.26

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0192

| CALIB |

| STANDHYD (0205)| Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.30	0.11
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63

```
    1.750   2.04 | 4.833   6.53 | 7.917   4.90 | 11.00   1.63
    1.833   2.04 | 4.917   6.53 | 8.000   4.90 | 11.08   1.63
    1.917   2.04 | 5.000   6.53 | 8.083   4.90 | 11.17   1.63
    2.000   2.04 | 5.083   6.53 | 8.167   4.90 | 11.25   1.63
    2.083   2.04 | 5.167   6.53 | 8.250   4.90 | 11.33   1.63
    2.167   2.04 | 5.250   6.53 | 8.333   2.86 | 11.42   1.63
    2.250   2.04 | 5.333   9.80 | 8.417   2.86 | 11.50   1.63
    2.333   2.45 | 5.417   9.80 | 8.500   2.86 | 11.58   1.63
    2.417   2.45 | 5.500   9.80 | 8.583   2.86 | 11.67   1.63
    2.500   2.45 | 5.583   9.80 | 8.667   2.86 | 11.75   1.63
    2.583   2.45 | 5.667   9.80 | 8.750   2.86 | 11.83   1.63
    2.667   2.45 | 5.750   9.80 | 8.833   2.86 | 11.92   1.63
    2.750   2.45 | 5.833  39.19 | 8.917   2.86 | 12.00   1.63
    2.833   2.45 | 5.917  39.19 | 9.000   2.86 | 12.08   1.63
    2.917   2.45 | 6.000  39.19 | 9.083   2.86 | 12.17   1.63
    3.000   2.45 | 6.083 107.78 | 9.167   2.86 | 12.25   1.63
    3.083   2.45 | 6.167 107.78 | 9.250   2.86 |

  Max.Eff.Inten.(mm/hr)=    107.78       39.11
        over (min)        5.00        10.00
  Storage Coeff.  (min)=      1.68 (ii)   6.28 (ii)
  Unit Hyd. Tpeak (min)=      5.00        10.00
  Unit Hyd. peak  (cms)=      0.32        0.15
                                  *TOTALS*
  PEAK FLOW      (cms)=       0.09        0.01         0.099 (iii)
  TIME TO PEAK   (hrs)=       6.25        6.25         6.25
  RUNOFF VOLUME  (mm)=       80.65       24.33        65.43
  TOTAL RAINFALL (mm)=       81.65       81.65        81.65
  RUNOFF COEFFICIENT  =       0.99        0.30         0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0021)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |  0.0880     0.0100

                            AREA     QPEAK     TPEAK       R.V.
                            (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0205)     0.410     0.099     6.25      65.43
  OUTFLOW: ID= 1 (  0021)     0.410     0.059     6.33      65.37

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 58.91
              TIME SHIFT OF PEAK FLOW         (min)=  5.00
              MAXIMUM  STORAGE   USED        (ha.m.)=  0.0072

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| CALIB            |
| STANDHYD (  0206)|  Area    (ha)=   1.64
|ID= 1 DT= 5.0 min |  Total Imp(%)=  73.00   Dir. Conn.(%)=  73.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       1.20         0.44
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope    (%)=        1.00         2.00
     Length           (m)=      104.56        40.00
     Mannings n           =      0.013        0.250
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 39.11
over (min) 5.00 10.00
Storage Coeff. (min)= 2.55 (ii) 7.15 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.29 0.14

	TOTALS		
PEAK FLOW (cms)=	0.36	0.04	0.396 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	65.44
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.30	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
---------- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0206) 1.640 0.396 6.25 65.44
OUTFLOW: ID= 1 (0022) 1.640 0.272 6.25 65.43

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.85
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0225

| CALIB |
| STANDHYD (0271)| Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.74 0.93
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 133.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 2.45 | 6.250 107.78 | 9.33 2.86
0.167 0.00 | 3.250 2.45 | 6.333 14.70 | 9.42 2.86
0.250 0.00 | 3.333 3.27 | 6.417 14.70 | 9.50 2.86
0.333 2.04 | 3.417 3.27 | 6.500 14.70 | 9.58 2.86
0.417 2.04 | 3.500 3.27 | 6.583 14.70 | 9.67 2.86
0.500 2.04 | 3.583 3.27 | 6.667 14.70 | 9.75 2.86
0.583 2.04 | 3.667 3.27 | 6.750 14.70 | 9.83 2.86
0.667 2.04 | 3.750 3.27 | 6.833 6.53 | 9.92 2.86
0.750 2.04 | 3.833 3.27 | 6.917 6.53 | 10.00 2.86
0.833 2.04 | 3.917 3.27 | 7.000 6.53 | 10.08 2.86
0.917 2.04 | 4.000 3.27 | 7.083 6.53 | 10.17 2.86
1.000 2.04 | 4.083 3.27 | 7.167 6.53 | 10.25 2.86
1.083 2.04 | 4.167 3.27 | 7.250 6.53 | 10.33 1.63
1.167 2.04 | 4.250 3.27 | 7.333 4.90 | 10.42 1.63
1.250 2.04 | 4.333 4.90 | 7.417 4.90 | 10.50 1.63
1.333 2.04 | 4.417 4.90 | 7.500 4.90 | 10.58 1.63
1.417 2.04 | 4.500 4.90 | 7.583 4.90 | 10.67 1.63
1.500 2.04 | 4.583 4.90 | 7.667 4.90 | 10.75 1.63
1.583 2.04 | 4.667 4.90 | 7.750 4.90 | 10.83 1.63
1.667 2.04 | 4.750 4.90 | 7.833 4.90 | 10.92 1.63
1.750 2.04 | 4.833 6.53 | 7.917 4.90 | 11.00 1.63
1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63
1.917 2.04 | 5.000 6.53 | 8.083 4.90 | 11.17 1.63
2.000 2.04 | 5.083 6.53 | 8.167 4.90 | 11.25 1.63
2.083 2.04 | 5.167 6.53 | 8.250 4.90 | 11.33 1.63
2.167 2.04 | 5.250 6.53 | 8.333 2.86 | 11.42 1.63
2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63
2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63
2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63
2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63
2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63
2.667 2.45 | 5.750 9.80 | 8.833 2.86 | 11.92 1.63
2.750 2.45 | 5.833 39.19 | 8.917 2.86 | 12.00 1.63
2.833 2.45 | 5.917 39.19 | 9.000 2.86 | 12.08 1.63
2.917 2.45 | 6.000 39.19 | 9.083 2.86 | 12.17 1.63
3.000 2.45 | 6.083 107.78 | 9.167 2.86 | 12.25 1.63

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        3.083    2.45 | 6.167  107.78 | 9.250    2.86 |

    Max.Eff.Inten.(mm/hr)=     107.78        36.21
            over (min)        5.00         15.00
    Storage Coeff.  (min)=       2.95 (ii)   13.54 (ii)
    Unit Hyd. Tpeak (min)=       5.00         15.00
    Unit Hyd. peak  (cms)=       0.28         0.08
                                      *TOTALS*
    PEAK FLOW      (cms)=        0.52         0.06          0.568 (iii)
    TIME TO PEAK    (hrs)=       6.25         6.33          6.25
    RUNOFF VOLUME    (mm)=      80.65        24.33          60.93
    TOTAL RAINFALL   (mm)=      81.65        81.65          81.65
    RUNOFF COEFFICIENT   =       0.99         0.30          0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| RESERVOIR(  0023)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |  (cms)     (ha.m.)
                       0.0000     0.0000    |   0.4710      0.0300

                           AREA     QPEAK     TPEAK       R.V.
                           (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0271)      2.670      0.568      6.25      60.93
   OUTFLOW: ID= 1 (  0023)      2.670      0.415      6.25      60.93

                      PEAK   FLOW   REDUCTION [Qout/Qin](%)= 73.12
                      TIME SHIFT OF PEAK FLOW         (min)=  0.00
                      MAXIMUM  STORAGE   USED        (ha.m.)=  0.0288

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| CALIB            |
| STANDHYD (  0282)|  Area    (ha)=   1.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  72.00   Dir. Conn.(%)=  72.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.96         0.37
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       1.00         2.00
     Length           (m)=      94.16        40.00
     Mannings n          =      0.013        0.250

       NOTE:  RAINFALL WAS TRANSFORMED TO   5.0 MIN. TIME STEP.

                        ---- TRANSFORMED HYETOGRAPH ----
              TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
               hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
             0.083    0.00 | 3.167    2.45 | 6.250  107.78 |  9.33    2.86
             0.167    0.00 | 3.250    2.45 | 6.333   14.70 |  9.42    2.86
             0.250    0.00 | 3.333    3.27 | 6.417   14.70 |  9.50    2.86
             0.333    2.04 | 3.417    3.27 | 6.500   14.70 |  9.58    2.86
             0.417    2.04 | 3.500    3.27 | 6.583   14.70 |  9.67    2.86
             0.500    2.04 | 3.583    3.27 | 6.667   14.70 |  9.75    2.86
             0.583    2.04 | 3.667    3.27 | 6.750   14.70 |  9.83    2.86
             0.667    2.04 | 3.750    3.27 | 6.833    6.53 |  9.92    2.86
             0.750    2.04 | 3.833    3.27 | 6.917    6.53 | 10.00    2.86
             0.833    2.04 | 3.917    3.27 | 7.000    6.53 | 10.08    2.86
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0.917   2.04 | 4.000   3.27 | 7.083   6.53 | 10.17   2.86
1.000   2.04 | 4.083   3.27 | 7.167   6.53 | 10.25   2.86
1.083   2.04 | 4.167   3.27 | 7.250   6.53 | 10.33   1.63
1.167   2.04 | 4.250   3.27 | 7.333   4.90 | 10.42   1.63
1.250   2.04 | 4.333   4.90 | 7.417   4.90 | 10.50   1.63
1.333   2.04 | 4.417   4.90 | 7.500   4.90 | 10.58   1.63
1.417   2.04 | 4.500   4.90 | 7.583   4.90 | 10.67   1.63
1.500   2.04 | 4.583   4.90 | 7.667   4.90 | 10.75   1.63
1.583   2.04 | 4.667   4.90 | 7.750   4.90 | 10.83   1.63
1.667   2.04 | 4.750   4.90 | 7.833   4.90 | 10.92   1.63
1.750   2.04 | 4.833   6.53 | 7.917   4.90 | 11.00   1.63
1.833   2.04 | 4.917   6.53 | 8.000   4.90 | 11.08   1.63
1.917   2.04 | 5.000   6.53 | 8.083   4.90 | 11.17   1.63
2.000   2.04 | 5.083   6.53 | 8.167   4.90 | 11.25   1.63
2.083   2.04 | 5.167   6.53 | 8.250   4.90 | 11.33   1.63
2.167   2.04 | 5.250   6.53 | 8.333   2.86 | 11.42   1.63
2.250   2.04 | 5.333   9.80 | 8.417   2.86 | 11.50   1.63
2.333   2.45 | 5.417   9.80 | 8.500   2.86 | 11.58   1.63
2.417   2.45 | 5.500   9.80 | 8.583   2.86 | 11.67   1.63
2.500   2.45 | 5.583   9.80 | 8.667   2.86 | 11.75   1.63
2.583   2.45 | 5.667   9.80 | 8.750   2.86 | 11.83   1.63
2.667   2.45 | 5.750   9.80 | 8.833   2.86 | 11.92   1.63
2.750   2.45 | 5.833  39.19 | 8.917   2.86 | 12.00   1.63
2.833   2.45 | 5.917  39.19 | 9.000   2.86 | 12.08   1.63
2.917   2.45 | 6.000  39.19 | 9.083   2.86 | 12.17   1.63
3.000   2.45 | 6.083 107.78 | 9.167   2.86 | 12.25   1.63
3.083   2.45 | 6.167 107.78 | 9.250   2.86 |

Max.Eff.Inten.(mm/hr)=    107.78       39.11
        over (min)        5.00        10.00
Storage Coeff.  (min)=      2.39 (ii)    7.09 (ii)
Unit Hyd. Tpeak (min)=      5.00        10.00
Unit Hyd. peak  (cms)=      0.30         0.14
                                *TOTALS*
   PEAK FLOW      (cms)=      0.29        0.03         0.318 (iii)
   TIME TO PEAK   (hrs)=      6.25        6.25         6.25
   RUNOFF VOLUME  (mm)=      80.65       24.33         64.88
   TOTAL RAINFALL (mm)=      81.65       81.65         81.65
   RUNOFF COEFFICIENT  =      0.99        0.30         0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
    (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
   (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0024)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000    0.0000   |  0.2530     0.0200

                            AREA     QPEAK     TPEAK       R.V.
                            (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0282)     1.330     0.318     6.25      64.88
  OUTFLOW: ID= 1 (  0024)     1.330     0.216     6.25      64.86

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 67.80
              TIME SHIFT OF PEAK FLOW        (min)=  0.00
              MAXIMUM  STORAGE   USED       (ha.m.)=  0.0186

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| CALIB           |
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| STANDHYD (0209)| Area (ha)= 1.23

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.90	0.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	39.11	
over (min)	5.00	10.00	
Storage Coeff. (min)=	2.34 (ii)	6.94 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.30	0.14	
		TOTALS	
PEAK FLOW (cms)=	0.27	0.03	0.297 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	65.44
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.30	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.2410 0.0160

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0209)	1.230	0.297	6.25	65.44
OUTFLOW: ID= 1 (0025)	1.230	0.217	6.25	65.43

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.14

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0156

| CALIB |

| STANDHYD (0210)| Area (ha)= 0.90

|ID= 1 DT= 5.0 min | Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.62	0.28
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	77.46	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63

2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63
2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63
2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63
2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63
2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63
2.667 2.45 | 5.750 9.80 | 8.833 2.86 | 11.92 1.63
2.750 2.45 | 5.833 39.19 | 8.917 2.86 | 12.00 1.63
2.833 2.45 | 5.917 39.19 | 9.000 2.86 | 12.08 1.63
2.917 2.45 | 6.000 39.19 | 9.083 2.86 | 12.17 1.63
3.000 2.45 | 6.083 107.78 | 9.167 2.86 | 12.25 1.63
3.083 2.45 | 6.167 107.78 | 9.250 2.86 |

Max.Eff.Inten.(mm/hr)= 107.78 69.86
over (min) 5.00 10.00
Storage Coeff. (min)= 2.13 (ii) 7.10 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.31 0.14
TOTALS
PEAK FLOW (cms)= 0.19 0.04 0.230 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 80.65 43.50 69.13
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.53 0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
---------- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0210) 0.900 0.230 6.25 69.13
OUTFLOW: ID= 1 (0026) 0.900 0.197 6.25 69.12

PEAK FLOW REDUCTION [Qout/Qin](%)= 85.83
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0081

| CALIB |
| STANDHYD (0203)| Area (ha)= 4.48
|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 3.18 1.30
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 172.82 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 2.45 | 6.250 107.78 | 9.33 2.86
0.167 0.00 | 3.250 2.45 | 6.333 14.70 | 9.42 2.86
0.250 0.00 | 3.333 3.27 | 6.417 14.70 | 9.50 2.86
0.333 2.04 | 3.417 3.27 | 6.500 14.70 | 9.58 2.86
0.417 2.04 | 3.500 3.27 | 6.583 14.70 | 9.67 2.86
0.500 2.04 | 3.583 3.27 | 6.667 14.70 | 9.75 2.86
0.583 2.04 | 3.667 3.27 | 6.750 14.70 | 9.83 2.86
0.667 2.04 | 3.750 3.27 | 6.833 6.53 | 9.92 2.86
0.750 2.04 | 3.833 3.27 | 6.917 6.53 | 10.00 2.86
0.833 2.04 | 3.917 3.27 | 7.000 6.53 | 10.08 2.86
0.917 2.04 | 4.000 3.27 | 7.083 6.53 | 10.17 2.86
1.000 2.04 | 4.083 3.27 | 7.167 6.53 | 10.25 2.86
1.083 2.04 | 4.167 3.27 | 7.250 6.53 | 10.33 1.63
1.167 2.04 | 4.250 3.27 | 7.333 4.90 | 10.42 1.63
1.250 2.04 | 4.333 4.90 | 7.417 4.90 | 10.50 1.63
1.333 2.04 | 4.417 4.90 | 7.500 4.90 | 10.58 1.63
1.417 2.04 | 4.500 4.90 | 7.583 4.90 | 10.67 1.63
1.500 2.04 | 4.583 4.90 | 7.667 4.90 | 10.75 1.63
1.583 2.04 | 4.667 4.90 | 7.750 4.90 | 10.83 1.63
1.667 2.04 | 4.750 4.90 | 7.833 4.90 | 10.92 1.63
1.750 2.04 | 4.833 6.53 | 7.917 4.90 | 11.00 1.63
1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63
1.917 2.04 | 5.000 6.53 | 8.083 4.90 | 11.17 1.63
2.000 2.04 | 5.083 6.53 | 8.167 4.90 | 11.25 1.63
2.083 2.04 | 5.167 6.53 | 8.250 4.90 | 11.33 1.63
2.167 2.04 | 5.250 6.53 | 8.333 2.86 | 11.42 1.63
2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63
2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63
2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63
2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63
2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63
2.667 2.45 | 5.750 9.80 | 8.833 2.86 | 11.92 1.63
2.750 2.45 | 5.833 39.19 | 8.917 2.86 | 12.00 1.63
2.833 2.45 | 5.917 39.19 | 9.000 2.86 | 12.08 1.63
2.917 2.45 | 6.000 39.19 | 9.083 2.86 | 12.17 1.63
3.000 2.45 | 6.083 107.78 | 9.167 2.86 | 12.25 1.63
3.083 2.45 | 6.167 107.78 | 9.250 2.86 |

Max.Eff.Inten.(mm/hr)= 107.78 50.45
over (min) 5.00 10.00
Storage Coeff. (min)= 3.44 (ii) 8.23 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.26 0.13

TOTALS

PEAK FLOW (cms)= 0.94 0.14 1.082 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 80.65 31.30 66.34
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.38 0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0202)| Area (ha)= 0.80
|ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.40 0.40
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00

Length (m)= 73.03 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 56.32

over (min) 5.00 15.00

Storage Coeff. (min)= 2.05 (ii) 10.93 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.31 0.09

TOTALS

PEAK FLOW (cms)= 0.12 0.04 0.155 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 80.65 34.93 57.78

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 0.43 0.71

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0045)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

--- (ha) (cms) (hrs) (mm)

ID1= 1 (0202): 0.80 0.155 6.25 57.78

+ ID2= 2 (0203): 4.48 1.082 6.25 66.34

==========

ID = 3 (0045): 5.28 1.238 6.25 65.04

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0027)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.7040 0.1100

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0045) 5.280 1.238 6.25 65.04

OUTFLOW: ID= 1 (0027) 5.280 0.621 6.33 65.03

PEAK FLOW REDUCTION [Qout/Qin](%)= 50.15

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0985

| CALIB |

| STANDHYD (0241)| Area (ha)= 3.10

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 2.05 1.05

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 143.76 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63

1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63
1.917 2.04 | 5.000 6.53 | 8.083 4.90 | 11.17 1.63
2.000 2.04 | 5.083 6.53 | 8.167 4.90 | 11.25 1.63
2.083 2.04 | 5.167 6.53 | 8.250 4.90 | 11.33 1.63
2.167 2.04 | 5.250 6.53 | 8.333 2.86 | 11.42 1.63
2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63
2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63
2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63
2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63
2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63
2.667 2.45 | 5.750 9.80 | 8.833 2.86 | 11.92 1.63
2.750 2.45 | 5.833 39.19 | 8.917 2.86 | 12.00 1.63
2.833 2.45 | 5.917 39.19 | 9.000 2.86 | 12.08 1.63
2.917 2.45 | 6.000 39.19 | 9.083 2.86 | 12.17 1.63
3.000 2.45 | 6.083 107.78 | 9.167 2.86 | 12.25 1.63
3.083 2.45 | 6.167 107.78 | 9.250 2.86 |

Max.Eff.Inten.(mm/hr)= 107.78 36.21
over (min) 5.00 15.00
Storage Coeff. (min)= 3.08 (ii) 13.68 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.27 0.08

TOTALS

PEAK FLOW (cms)= 0.61 0.07 0.666 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 80.65 24.33 61.50
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.30 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1320 0.1200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0241) 3.100 0.666 6.25 61.50
OUTFLOW: ID= 1 (0028) 3.100 0.108 6.75 61.42

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.17
TIME SHIFT OF PEAK FLOW (min)= 30.00
MAXIMUM STORAGE USED (ha.m.)= 0.0981

| CALIB |
| STANDHYD (0281)| Area (ha)= 0.97
|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.64 0.33
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 80.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 36.21
over (min) 5.00 15.00
Storage Coeff. (min)= 2.18 (ii) 12.77 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.31 0.08

	TOTALS		
PEAK FLOW (cms)=	0.19	0.02	0.210 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	61.49
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.30	0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0030)		OVERFLOW IS OFF				
IN= 2---> OUT= 1						
DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE		

---------- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.1600 0.0130

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0281) 0.970 0.210 6.25 61.49

OUTFLOW: ID= 1 (0030) 0.970 0.141 6.25 61.47

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.33

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0125

****

** SIMULATION:100yr 12hr 15min SCS Type II (MTO) **

****

| READ STORM | Filename: C:\Users\RObeid\AppD

| | ata\Local\Temp\

| | f159238a-5f00-4f05-ac5e-db202b2121bc\08916079

| Ptotal= 89.60 mm | Comments: 100yr 12hr 15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	3.58	6.50	16.13	9.75	3.14
0.25	2.24	3.50	3.58	6.75	7.17	10.00	3.14
0.50	2.24	3.75	3.58	7.00	7.17	10.25	1.79
0.75	2.24	4.00	3.58	7.25	5.38	10.50	1.79
1.00	2.24	4.25	5.38	7.50	5.38	10.75	1.79
1.25	2.24	4.50	5.38	7.75	5.38	11.00	1.79
1.50	2.24	4.75	7.17	8.00	5.38	11.25	1.79
1.75	2.24	5.00	7.17	8.25	3.14	11.50	1.79
2.00	2.24	5.25	10.75	8.50	3.14	11.75	1.79
2.25	2.69	5.50	10.75	8.75	3.14	12.00	1.79
2.50	2.69	5.75	43.01	9.00	3.14		
2.75	2.69	6.00	118.27	9.25	3.14		
3.00	2.69	6.25	16.13	9.50	3.14		

| CALIB |

| STANDHYD (0242)| Area (ha)= 0.72

|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.50 0.22

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 69.28 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14

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0.833   2.24 | 3.917   3.58 | 7.000   7.17 | 10.08   3.14
0.917   2.24 | 4.000   3.58 | 7.083   7.17 | 10.17   3.14
1.000   2.24 | 4.083   3.58 | 7.167   7.17 | 10.25   3.14
1.083   2.24 | 4.167   3.58 | 7.250   7.17 | 10.33   1.79
1.167   2.24 | 4.250   3.58 | 7.333   5.38 | 10.42   1.79
1.250   2.24 | 4.333   5.38 | 7.417   5.38 | 10.50   1.79
1.333   2.24 | 4.417   5.38 | 7.500   5.38 | 10.58   1.79
1.417   2.24 | 4.500   5.38 | 7.583   5.38 | 10.67   1.79
1.500   2.24 | 4.583   5.38 | 7.667   5.38 | 10.75   1.79
1.583   2.24 | 4.667   5.38 | 7.750   5.38 | 10.83   1.79
1.667   2.24 | 4.750   5.38 | 7.833   5.38 | 10.92   1.79
1.750   2.24 | 4.833   7.17 | 7.917   5.38 | 11.00   1.79
1.833   2.24 | 4.917   7.17 | 8.000   5.38 | 11.08   1.79
1.917   2.24 | 5.000   7.17 | 8.083   5.38 | 11.17   1.79
2.000   2.24 | 5.083   7.17 | 8.167   5.38 | 11.25   1.79
2.083   2.24 | 5.167   7.17 | 8.250   5.38 | 11.33   1.79
2.167   2.24 | 5.250   7.17 | 8.333   3.14 | 11.42   1.79
2.250   2.24 | 5.333  10.75 | 8.417   3.14 | 11.50   1.79
2.333   2.69 | 5.417  10.75 | 8.500   3.14 | 11.58   1.79
2.417   2.69 | 5.500  10.75 | 8.583   3.14 | 11.67   1.79
2.500   2.69 | 5.583  10.75 | 8.667   3.14 | 11.75   1.79
2.583   2.69 | 5.667  10.75 | 8.750   3.14 | 11.83   1.79
2.667   2.69 | 5.750  10.75 | 8.833   3.14 | 11.92   1.79
2.750   2.69 | 5.833  43.01 | 8.917   3.14 | 12.00   1.79
2.833   2.69 | 5.917  43.01 | 9.000   3.14 | 12.08   1.79
2.917   2.69 | 6.000  43.01 | 9.083   3.14 | 12.17   1.79
3.000   2.69 | 6.083 118.27 | 9.167   3.14 | 12.25   1.79
3.083   2.69 | 6.167 118.27 | 9.250   3.14 |

Max.Eff.Inten.(mm/hr)=    118.27       45.87
        over (min)        5.00        10.00
Storage Coeff.  (min)=      1.92 (ii)    6.62 (ii)
Unit Hyd. Tpeak (min)=      5.00        10.00
Unit Hyd. peak  (cms)=      0.31        0.14

                                *TOTALS*
    PEAK FLOW      (cms)=      0.17        0.02         0.188 (iii)
    TIME TO PEAK   (hrs)=      6.25        6.25         6.25
    RUNOFF VOLUME  (mm)=      88.60       28.53        70.58
    TOTAL RAINFALL (mm)=      89.60       89.60        89.60
    RUNOFF COEFFICIENT  =     0.99        0.32         0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  58.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
      (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0020)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |  0.0600      0.0240

                            AREA     QPEAK     TPEAK       R.V.
                            (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0242)     0.720     0.188      6.25      70.58
  OUTFLOW: ID= 1 (  0020)     0.720     0.053      6.33      70.44

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 28.23
              TIME SHIFT OF PEAK FLOW         (min)=  5.00
              MAXIMUM  STORAGE   USED        (ha.m.)=  0.0212

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| CALIB |

| STANDHYD (0205)| Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.30	0.11
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87	
over (min)	5.00	10.00	
Storage Coeff. (min)=	1.62 (ii)	6.05 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.32	0.15	
		TOTALS	
PEAK FLOW (cms)=	0.10	0.01	0.110 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	72.38
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0021)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0880 0.0100

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0205)	0.410	0.110	6.25	72.38
OUTFLOW: ID= 1 (0021)	0.410	0.065	6.33	72.33

PEAK FLOW REDUCTION [Qout/Qin](%)= 58.87

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0079

| CALIB |

| STANDHYD (0206)| Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.20	0.44
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79

```
          2.167   2.24 | 5.250   7.17 | 8.333   3.14 | 11.42   1.79
          2.250   2.24 | 5.333  10.75 | 8.417   3.14 | 11.50   1.79
          2.333   2.69 | 5.417  10.75 | 8.500   3.14 | 11.58   1.79
          2.417   2.69 | 5.500  10.75 | 8.583   3.14 | 11.67   1.79
          2.500   2.69 | 5.583  10.75 | 8.667   3.14 | 11.75   1.79
          2.583   2.69 | 5.667  10.75 | 8.750   3.14 | 11.83   1.79
          2.667   2.69 | 5.750  10.75 | 8.833   3.14 | 11.92   1.79
          2.750   2.69 | 5.833  43.01 | 8.917   3.14 | 12.00   1.79
          2.833   2.69 | 5.917  43.01 | 9.000   3.14 | 12.08   1.79
          2.917   2.69 | 6.000  43.01 | 9.083   3.14 | 12.17   1.79
          3.000   2.69 | 6.083 118.27 | 9.167   3.14 | 12.25   1.79
          3.083   2.69 | 6.167 118.27 | 9.250   3.14 |

   Max.Eff.Inten.(mm/hr)=    118.27       45.87
          over (min)        5.00        10.00
   Storage Coeff.  (min)=      2.45 (ii)    6.89 (ii)
   Unit Hyd. Tpeak (min)=      5.00        10.00
   Unit Hyd. peak  (cms)=      0.30         0.14
                                    *TOTALS*
   PEAK FLOW      (cms)=       0.39         0.04         0.438 (iii)
   TIME TO PEAK   (hrs)=       6.25         6.25         6.25
   RUNOFF VOLUME  (mm)=       88.60        28.53        72.38
   TOTAL RAINFALL (mm)=       89.60        89.60        89.60
   RUNOFF COEFFICIENT  =       0.99         0.32         0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0022)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |  0.3030      0.0230

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0206)     1.640      0.438      6.25      72.38
  OUTFLOW: ID= 1 (  0022)     1.640      0.302      6.25      72.37

            PEAK   FLOW   REDUCTION [Qout/Qin](%)= 68.88
            TIME SHIFT OF PEAK FLOW         (min)=  0.00
            MAXIMUM  STORAGE   USED       (ha.m.)=  0.0249

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--------------------
| CALIB            |
| STANDHYD (  0271)|  Area    (ha)=   2.67
|ID= 1 DT= 5.0 min |   Total Imp(%)=  65.00   Dir. Conn.(%)=  65.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       1.74         0.93
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope    (%)=        1.00         2.00
     Length           (m)=      133.42        40.00
     Mannings n           =      0.013        0.250

       NOTE:  RAINFALL WAS TRANSFORMED TO   5.0 MIN. TIME STEP.


                    ---- TRANSFORMED HYETOGRAPH ----
          TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
```

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.00 15.00
Storage Coeff. (min)= 2.84 (ii) 12.48 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.28 0.08

TOTALS

PEAK FLOW (cms)= 0.57 0.07 0.631 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 88.60 28.53 67.57
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.32 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.4710	0.0300

	AREA	QPEAK	TPEAK	R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0271) 2.670 0.631 6.25 67.57

OUTFLOW: ID= 1 (0023) 2.670 0.461 6.25 67.57

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.08

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0319

| CALIB |

| STANDHYD (0282)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.96	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87

over (min) 5.00 10.00

Storage Coeff. (min)= 2.30 (ii) 6.83 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.30 0.14

TOTALS

PEAK FLOW (cms)= 0.31 0.04 0.352 (iii)

TIME TO PEAK (hrs)= 6.25 6.25 6.25

RUNOFF VOLUME (mm)= 88.60 28.53 71.78

TOTAL RAINFALL (mm)= 89.60 89.60 89.60

RUNOFF COEFFICIENT = 0.99 0.32 0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0024)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.2530 0.0200

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0282) 1.330 0.352 6.25 71.78

OUTFLOW: ID= 1 (0024) 1.330 0.239 6.25 71.77

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.81

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0206

| CALIB |

| STANDHYD (0209)| Area (ha)= 1.23

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.90 0.33

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 90.55 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79

```
      1.333   2.24 | 4.417   5.38 | 7.500   5.38 | 10.58   1.79
      1.417   2.24 | 4.500   5.38 | 7.583   5.38 | 10.67   1.79
      1.500   2.24 | 4.583   5.38 | 7.667   5.38 | 10.75   1.79
      1.583   2.24 | 4.667   5.38 | 7.750   5.38 | 10.83   1.79
      1.667   2.24 | 4.750   5.38 | 7.833   5.38 | 10.92   1.79
      1.750   2.24 | 4.833   7.17 | 7.917   5.38 | 11.00   1.79
      1.833   2.24 | 4.917   7.17 | 8.000   5.38 | 11.08   1.79
      1.917   2.24 | 5.000   7.17 | 8.083   5.38 | 11.17   1.79
      2.000   2.24 | 5.083   7.17 | 8.167   5.38 | 11.25   1.79
      2.083   2.24 | 5.167   7.17 | 8.250   5.38 | 11.33   1.79
      2.167   2.24 | 5.250   7.17 | 8.333   3.14 | 11.42   1.79
      2.250   2.24 | 5.333  10.75 | 8.417   3.14 | 11.50   1.79
      2.333   2.69 | 5.417  10.75 | 8.500   3.14 | 11.58   1.79
      2.417   2.69 | 5.500  10.75 | 8.583   3.14 | 11.67   1.79
      2.500   2.69 | 5.583  10.75 | 8.667   3.14 | 11.75   1.79
      2.583   2.69 | 5.667  10.75 | 8.750   3.14 | 11.83   1.79
      2.667   2.69 | 5.750  10.75 | 8.833   3.14 | 11.92   1.79
      2.750   2.69 | 5.833  43.01 | 8.917   3.14 | 12.00   1.79
      2.833   2.69 | 5.917  43.01 | 9.000   3.14 | 12.08   1.79
      2.917   2.69 | 6.000  43.01 | 9.083   3.14 | 12.17   1.79
      3.000   2.69 | 6.083 118.27 | 9.167   3.14 | 12.25   1.79
      3.083   2.69 | 6.167 118.27 | 9.250   3.14 |

Max.Eff.Inten.(mm/hr)=    118.27       45.87
        over (min)        5.00        10.00
Storage Coeff.  (min)=      2.25 (ii)    6.68 (ii)
Unit Hyd. Tpeak (min)=      5.00        10.00
Unit Hyd. peak  (cms)=      0.30         0.14
                                  *TOTALS*
PEAK FLOW      (cms)=       0.29         0.03         0.329 (iii)
TIME TO PEAK   (hrs)=       6.25         6.25          6.25
RUNOFF VOLUME  (mm)=       88.60        28.53         72.38
TOTAL RAINFALL (mm)=       89.60        89.60         89.60
RUNOFF COEFFICIENT  =       0.99         0.32          0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  58.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| RESERVOIR(  0025)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |   0.2410      0.0160

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0209)      1.230      0.329      6.25      72.38
  OUTFLOW: ID= 1 (  0025)      1.230      0.240      6.25      72.37

            PEAK   FLOW   REDUCTION [Qout/Qin](%)= 73.15
            TIME SHIFT OF PEAK FLOW         (min)=  0.00
            MAXIMUM  STORAGE   USED         (ha.m.)=  0.0173

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--------------------
| CALIB            |
| STANDHYD (  0210)|   Area    (ha)=   0.90
|ID= 1 DT= 5.0 min |   Total Imp(%)=  69.00   Dir. Conn.(%)=  69.00
--------------------
                        IMPERVIOUS    PERVIOUS (i)
    Surface Area     (ha)=       0.62         0.28
```

Dep. Storage	(mm)=	1.00 1.50
Average Slope	(%)=	1.00 2.00
Length	(m)=	77.46 40.00
Mannings n	=	0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	79.86	
over (min)	5.00	10.00	
Storage Coeff. (min)=	2.05 (ii)	6.84 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.31	0.14	
		TOTALS	
PEAK FLOW (cms)=	0.20	0.05	0.255 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	88.60	49.88	76.59
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.56	0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

--- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.2340 0.0090

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0210)	0.900	0.255	6.25	76.59
OUTFLOW: ID= 1 (0026)	0.900	0.219	6.25	76.59

PEAK FLOW REDUCTION [Qout/Qin](%)= 85.85

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0090

| CALIB |

| STANDHYD (0203)| Area (ha)= 4.48

|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.18	1.30
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	172.82	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79

2.667 2.69 | 5.750 10.75 | 8.833 3.14 | 11.92 1.79
2.750 2.69 | 5.833 43.01 | 8.917 3.14 | 12.00 1.79
2.833 2.69 | 5.917 43.01 | 9.000 3.14 | 12.08 1.79
2.917 2.69 | 6.000 43.01 | 9.083 3.14 | 12.17 1.79
3.000 2.69 | 6.083 118.27 | 9.167 3.14 | 12.25 1.79
3.083 2.69 | 6.167 118.27 | 9.250 3.14 |

Max.Eff.Inten.(mm/hr)= 118.27 58.64
over (min) 5.00 10.00
Storage Coeff. (min)= 3.32 (ii) 7.93 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.26 0.13

TOTALS

PEAK FLOW (cms)= 1.04 0.16 1.201 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 88.60 36.40 73.46
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.41 0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0202)| Area (ha)= 0.80
|ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.40 0.40
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 73.03 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79

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      1.917   2.24 | 5.000   7.17 | 8.083   5.38 | 11.17   1.79
      2.000   2.24 | 5.083   7.17 | 8.167   5.38 | 11.25   1.79
      2.083   2.24 | 5.167   7.17 | 8.250   5.38 | 11.33   1.79
      2.167   2.24 | 5.250   7.17 | 8.333   3.14 | 11.42   1.79
      2.250   2.24 | 5.333  10.75 | 8.417   3.14 | 11.50   1.79
      2.333   2.69 | 5.417  10.75 | 8.500   3.14 | 11.58   1.79
      2.417   2.69 | 5.500  10.75 | 8.583   3.14 | 11.67   1.79
      2.500   2.69 | 5.583  10.75 | 8.667   3.14 | 11.75   1.79
      2.583   2.69 | 5.667  10.75 | 8.750   3.14 | 11.83   1.79
      2.667   2.69 | 5.750  10.75 | 8.833   3.14 | 11.92   1.79
      2.750   2.69 | 5.833  43.01 | 8.917   3.14 | 12.00   1.79
      2.833   2.69 | 5.917  43.01 | 9.000   3.14 | 12.08   1.79
      2.917   2.69 | 6.000  43.01 | 9.083   3.14 | 12.17   1.79
      3.000   2.69 | 6.083 118.27 | 9.167   3.14 | 12.25   1.79
      3.083   2.69 | 6.167 118.27 | 9.250   3.14 |

  Max.Eff.Inten.(mm/hr)=    118.27       65.15
          over (min)        5.00        15.00
  Storage Coeff.  (min)=      1.98 (ii)   10.36 (ii)
  Unit Hyd. Tpeak (min)=      5.00        15.00
  Unit Hyd. peak  (cms)=      0.31         0.09
                                  *TOTALS*
  PEAK FLOW      (cms)=       0.13         0.05         0.174 (iii)
  TIME TO PEAK   (hrs)=       6.25         6.33         6.25
  RUNOFF VOLUME  (mm)=       88.60        40.46        64.52
  TOTAL RAINFALL (mm)=       89.60        89.60        89.60
  RUNOFF COEFFICIENT  =       0.99         0.45         0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

    (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
        CN*  =  71.0    Ia = Dep. Storage  (Above)
   (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
        THAN THE STORAGE COEFFICIENT.

   (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0045)|
|  1 +  2 =  3   |        AREA    QPEAK    TPEAK     R.V.
--------------------        (ha)    (cms)    (hrs)     (mm)
      ID1= 1 (  0202):     0.80   0.174     6.25    64.52
    + ID2= 2 (  0203):     4.48   1.201     6.25    73.46
      ==================================================
      ID = 3 (  0045):     5.28   1.375     6.25    72.11

   NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0027)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |  (cms)     (ha.m.)
                        0.0000     0.0000    |  0.7040      0.1100

                          AREA     QPEAK     TPEAK       R.V.
                          (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0045)     5.280      1.375      6.25      72.11
  OUTFLOW: ID= 1 (  0027)     5.280      0.689      6.33      72.10

              PEAK   FLOW   REDUCTION [Qout/Qin](%)= 50.14
              TIME SHIFT OF PEAK FLOW         (min)=  5.00
              MAXIMUM  STORAGE   USED        (ha.m.)=  0.1095

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| CALIB            |
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| STANDHYD (0241)| Area (ha)= 3.10

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.05	1.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	143.76	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87	
over (min)	5.00	15.00	
Storage Coeff. (min)=	2.97 (ii)	12.61 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.28	0.08	
		TOTALS	
PEAK FLOW (cms)=	0.67	0.08	0.739 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	68.17
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.76

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

---------- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.1320 0.1200

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0241)	3.100	0.739	6.25	68.17
OUTFLOW: ID= 1 (0028)	3.100	0.120	6.75	68.10

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.17

TIME SHIFT OF PEAK FLOW (min)= 30.00

MAXIMUM STORAGE USED (ha.m.)= 0.1088

| CALIB |

| STANDHYD (0281)| Area (ha)= 0.97

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.64	0.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79

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          2.250    2.24 | 5.333   10.75 | 8.417    3.14 | 11.50    1.79
          2.333    2.69 | 5.417   10.75 | 8.500    3.14 | 11.58    1.79
          2.417    2.69 | 5.500   10.75 | 8.583    3.14 | 11.67    1.79
          2.500    2.69 | 5.583   10.75 | 8.667    3.14 | 11.75    1.79
          2.583    2.69 | 5.667   10.75 | 8.750    3.14 | 11.83    1.79
          2.667    2.69 | 5.750   10.75 | 8.833    3.14 | 11.92    1.79
          2.750    2.69 | 5.833   43.01 | 8.917    3.14 | 12.00    1.79
          2.833    2.69 | 5.917   43.01 | 9.000    3.14 | 12.08    1.79
          2.917    2.69 | 6.000   43.01 | 9.083    3.14 | 12.17    1.79
          3.000    2.69 | 6.083  118.27 | 9.167    3.14 | 12.25    1.79
          3.083    2.69 | 6.167  118.27 | 9.250    3.14 |

   Max.Eff.Inten.(mm/hr)=     118.27       45.87
           over (min)        5.00        15.00
   Storage Coeff.  (min)=       2.10 (ii)   11.74 (ii)
   Unit Hyd. Tpeak (min)=       5.00        15.00
   Unit Hyd. peak  (cms)=       0.31        0.09
                                      *TOTALS*
   PEAK FLOW      (cms)=       0.21        0.03         0.233 (iii)
   TIME TO PEAK    (hrs)=      6.25        6.33         6.25
   RUNOFF VOLUME    (mm)=      88.60       28.53        68.17
   TOTAL RAINFALL   (mm)=      89.60       89.60        89.60
   RUNOFF COEFFICIENT   =       0.99        0.32         0.76

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
         CN*  =  58.0    Ia = Dep. Storage  (Above)
    (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
   (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
```
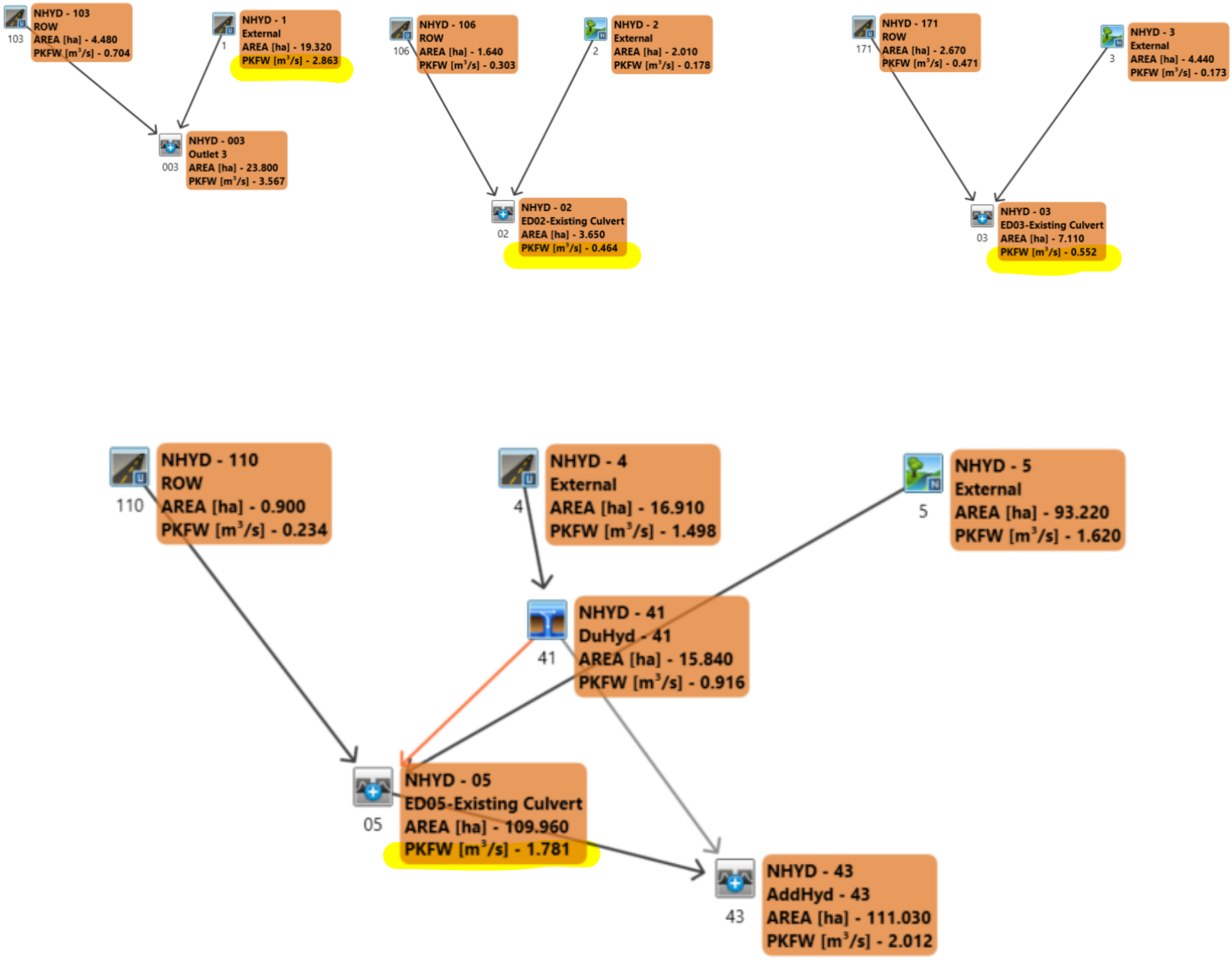

```
| RESERVOIR(  0030)|    OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |    OUTFLOW    STORAGE   | OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)  |  (cms)     (ha.m.)
                        0.0000     0.0000   |  0.1600      0.0130


                             AREA     QPEAK     TPEAK       R.V.
                             (ha)     (cms)     (hrs)       (mm)
  INFLOW : ID= 2 (  0281)     0.970      0.233      6.25      68.17
  OUTFLOW: ID= 1 (  0030)     0.970      0.157      6.25      68.16


            PEAK   FLOW   REDUCTION [Qout/Qin](%)= 67.23
            TIME SHIFT OF PEAK FLOW         (min)=  0.00
            MAXIMUM  STORAGE   USED         (ha.m.)=  0.0139


--------------------------------------------------------------------------------
```

APPENDIX D: Hydraulics Assessment

VO CULVERTS SCHEMATIC - 100 YR - 12HR - 15min - SCS Type II EXISTING



APPENDIX D1

HY-8 Output

HY-8 Culvert Analysis Report

EXISTING CULVERTS

5-Year

Culvert Data: ED02

Culvert Data Summary - ED02

Barrel Shape: Circular

Barrel Diameter: 800.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - ED02

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 271.47 m

Outlet Station: 137.04 m

Outlet Elevation: 271.17 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.22 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.85	0.22	0.22	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Culvert Data: ED03

Culvert Data Summary - ED03

Barrel Shape: Circular

Barrel Diameter: 900.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - ED03

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.87 m

Outlet Station: 129.82 m

Outlet Elevation: 264.47 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.27 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.28	0.27	0.27	0.00	1
265.53	0.60	0.60	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Culvert Data: ED05

Culvert Data Summary - ED05

Barrel Shape: Circular

Barrel Diameter: 1050.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - ED05

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 248.68 m

Outlet Station: 158.89 m

Outlet Elevation: 248.31 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.93 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.48	0.93	0.93	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

10-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.28 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.91	0.28	0.28	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.34 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.33	0.34	0.34	0.00	1
265.53	0.60	0.60	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.19 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.19	1.19	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

25-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.35 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.98	0.35	0.35	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.43 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.41	0.43	0.43	0.00	1
265.53	0.60	0.60	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.28 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.66	1.28	1.28	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

50-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.41 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
272.03	0.41	0.41	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.49 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.30	0.30	0.30	0.00	1
265.46	0.49	0.49	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.50 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

100-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.46 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.93	0.30	0.30	0.00	1
272.07	0.46	0.46	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.55 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.30	0.30	0.30	0.00	1
265.50	0.55	0.55	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.78 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.94	1.78	1.78	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

1.3x100-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.60 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.93	0.30	0.30	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.72 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.30	0.30	0.30	0.00	1
265.61	0.72	0.72	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.32 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.31	2.32	2.32	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

HY-8 Culvert Analysis Report

PROPOSED CULVERTS

5-Year

Culvert Data: WD07-TWIN 900 Barrel 1

Culvert Data Summary - WD07-TWIN 900 Barrel 1

Barrel Shape: Circular

Barrel Diameter: 900.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - WD07-TWIN 900 Barrel 1

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.59 m

Outlet Station: 160.34 m

Outlet Elevation: 264.11 m

Number of Barrels: 1

Culvert Data: WD07-TWIN 900 Barrel 2

Culvert Data Summary - WD07-TWIN 900 Barrel 2

Barrel Shape: Circular

Barrel Diameter: 900.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - WD07-TWIN 900 Barrel 2

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.59 m

Outlet Station: 160.34 m

Outlet Elevation: 264.11 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.34 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.30	1.34	0.67	0.67	0.00	4
265.39	1.60	0.80	0.80	0.00	4
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.82	2.80	1.40	1.40	0.00	5

266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Culvert Data: Railway North

Culvert Data Summary - Railway North

Barrel Shape: Circular

Barrel Diameter: 1350.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - Railway North

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.87 m

Outlet Station: 120.85 m

Outlet Elevation: 264.71 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.34 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.75	1.34	1.34	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

10-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.68 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.41	1.68	0.84	0.84	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	6
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.68 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.88	1.68	1.68	0.00	1
265.99	2.00	2.00	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

25-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.05 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.53	2.05	1.03	1.03	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	4
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.05 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
266.01	2.05	2.05	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

50-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.35 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.64	2.35	1.18	1.18	0.00	4
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.21	2.21	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.35 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1
266.12	2.35	2.35	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

100-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.86 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.85	2.86	1.43	1.43	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.86 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1

266.13	2.40	2.40	0.00	1
266.30	2.86	2.86	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

1.3x100 Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 3.72 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.30	3.72	1.86	1.86	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 3.72 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

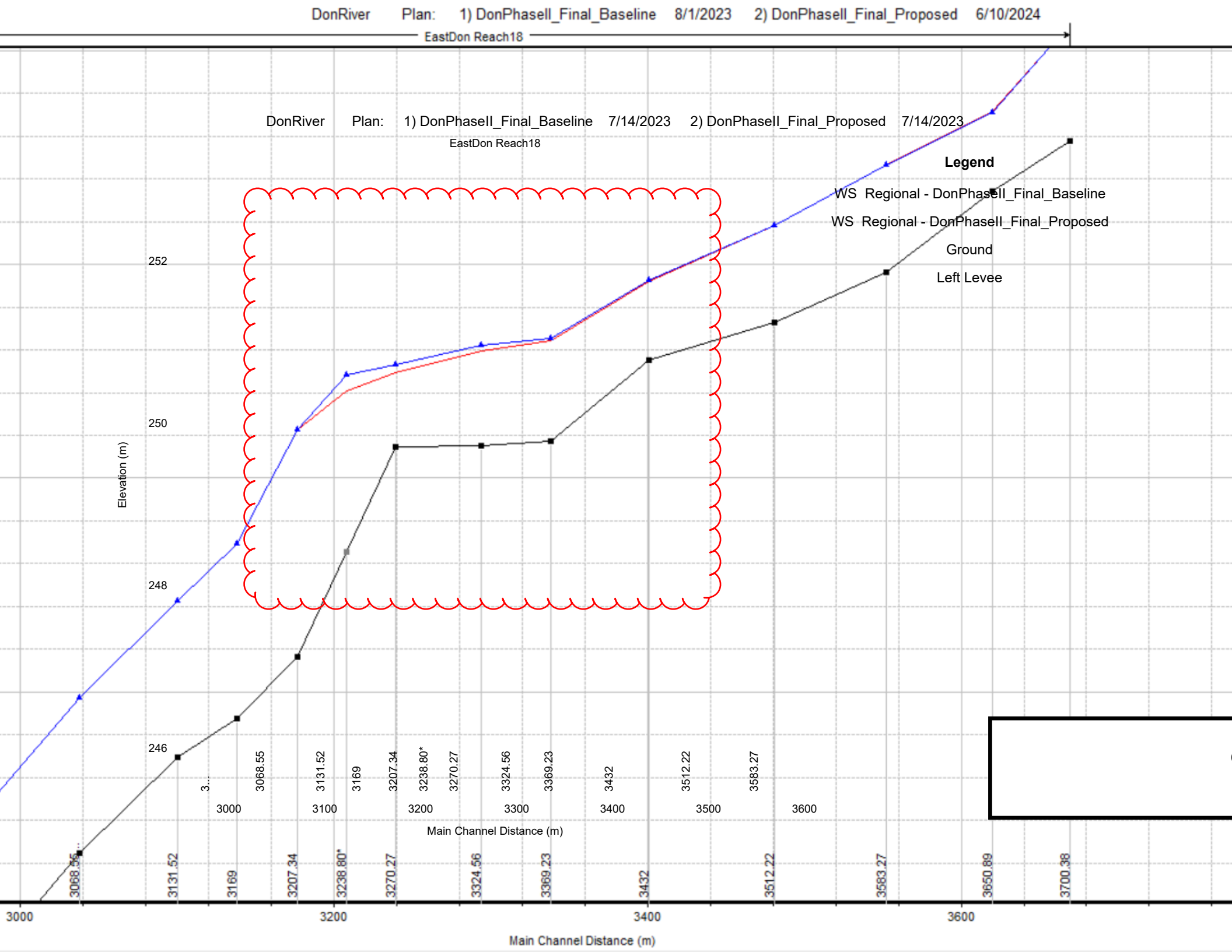
Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.65	3.72	3.72	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

APPENDIX D2

HEC-RAS Output

HECRAS Output
East Don, Reach 18


EAST DON RIVER
3512.22
3432
3369.23
3324.56
3270.27
3238.80*
3207.34
3169
3131.52
3088.55
3011.21
2911.6
2797.98
2849.55
2724.11
Duffern St
TRCA HEC RAS Model


DonRiver Plan: 1) DonPhaseII_Final_Baseline 8/1/2023 2) DonPhaseII_Final_Proposed 6/10/2024
EastDon Reach18
DonRiver Plan: 1) DonPhaseII_Final_Baseline 7/14/2023 2) DonPhaseII_Final_Proposed 7/14/2023
EastDon Reach18
Legend
WS Regional - DonPhaseII_Final_Baseline
WS Regional - DonPhaseII_Final_Proposed
Ground
Left Levee
Elevation (m)
252
250
248
246
3...
3068.55
3131.52
3169
3207.34
3238.80*
3270.27
3324.56
3369.23
3432
3512.22
3583.27
3000
3100
3200
3300
3400
3500
3600
Main Channel Distance (m)
3068.55
3131.52
3169
3207.34
3238.80*
3270.27
3324.56
3369.23
3432
3512.22
3583.27
3650.89
3700.38
3000
3200
3400
3600
Main Channel Distance (m)

HEC-RAS River: EastDon Reach: Reach18

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	3700.38	Regional	DonPhaseII_Final_Baseline	35.93	253.15	254.25	254.25	254.52	0.017278	1.77	17.88	32.46	0.63
Reach18	3700.38	Regional	DonPhaseII_Final_Proposed	35.93	253.15	254.25	254.25	254.52	0.017278	1.77	17.88	32.46	0.63
Reach18	3700.38	350 Year	DonPhaseII_Final_Baseline	3.63	253.15	253.68	253.68	253.85	0.044517	1.83	1.98	12.45	0.99
Reach18	3700.38	350 Year	DonPhaseII_Final_Proposed	3.63	253.15	253.68	253.68	253.85	0.044517	1.83	1.98	12.45	0.99
Reach18	3700.38	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	253.15	253.56	253.41	253.58	0.005998	0.62	1.37	11.01	0.38
Reach18	3700.38	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	253.15	253.56	253.41	253.58	0.005998	0.62	1.37	11.01	0.38
Reach18	3700.38	100 Year	DonPhaseII_Final_Baseline	0.65	253.15	253.51	253.38	253.53	0.005724	0.58	1.12	10.40	0.38
Reach18	3700.38	100 Year	DonPhaseII_Final_Proposed	0.65	253.15	253.51	253.38	253.53	0.005723	0.58	1.12	10.40	0.38
Reach18	3700.38	50 Year	DonPhaseII_Final_Baseline	0.52	253.15	253.48	253.35	253.49	0.005450	0.54	0.96	9.95	0.37
Reach18	3700.38	50 Year	DonPhaseII_Final_Proposed	0.52	253.15	253.48	253.35	253.49	0.005450	0.54	0.96	9.95	0.37
Reach18	3700.38	25 Year	DonPhaseII_Final_Baseline	0.44	253.15	253.45	253.34	253.47	0.005311	0.52	0.84	9.63	0.38
Reach18	3700.38	25 Year	DonPhaseII_Final_Proposed	0.44	253.15	253.45	253.34	253.47	0.005319	0.52	0.84	9.63	0.38
Reach18	3700.38	10 Year	DonPhaseII_Final_Baseline	0.38	253.15	253.43	253.32	253.45	0.005045	0.50	0.77	9.41	0.37
Reach18	3700.38	10 Year	DonPhaseII_Final_Proposed	0.38	253.15	253.43	253.32	253.45	0.005040	0.50	0.77	9.41	0.37
Reach18	3700.38	5 Year	DonPhaseII_Final_Baseline	0.34	253.15	253.42	253.31	253.43	0.004910	0.48	0.71	9.21	0.37
Reach18	3700.38	5 Year	DonPhaseII_Final_Proposed	0.34	253.15	253.42	253.31	253.43	0.004910	0.48	0.71	9.21	0.37
Reach18	3700.38	2 Year	DonPhaseII_Final_Baseline	0.27	253.15	253.39	253.30	253.40	0.004489	0.45	0.60	8.73	0.37
Reach18	3700.38	2 Year	DonPhaseII_Final_Proposed	0.27	253.15	253.39	253.30	253.40	0.004485	0.45	0.60	8.73	0.37
Reach18	3650.89	Regional	DonPhaseII_Final_Baseline	36.87	252.69	253.43	253.38	253.51	0.003343	0.67	31.39	52.51	0.30
Reach18	3650.89	Regional	DonPhaseII_Final_Proposed	36.87	252.69	253.43	253.38	253.51	0.003348	0.67	31.37	52.51	0.30
Reach18	3650.89	350 Year	DonPhaseII_Final_Baseline	3.70	252.69	253.27	253.23	253.36	0.019469	1.41	3.43	49.08	0.72
Reach18	3650.89	350 Year	DonPhaseII_Final_Proposed	3.70	252.69	253.27	253.23	253.36	0.019419	1.41	3.44	49.09	0.72
Reach18	3650.89	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	252.69	253.02	252.96	253.07	0.022584	0.95	0.89	37.86	0.67
Reach18	3650.89	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	252.69	253.02	252.96	253.07	0.022584	0.95	0.89	37.86	0.67
Reach18	3650.89	100 Year	DonPhaseII_Final_Baseline	0.65	252.69	252.98	252.93	253.02	0.023660	0.91	0.72	37.05	0.68
Reach18	3650.89	100 Year	DonPhaseII_Final_Proposed	0.65	252.69	252.98	252.93	253.02	0.023686	0.91	0.72	37.05	0.68
Reach18	3650.89	50 Year	DonPhaseII_Final_Baseline	0.52	252.69	252.94	252.90	252.98	0.026456	0.89	0.58	36.40	0.71
Reach18	3650.89	50 Year	DonPhaseII_Final_Proposed	0.52	252.69	252.94	252.90	252.98	0.026456	0.89	0.58	36.40	0.71
Reach18	3650.89	25 Year	DonPhaseII_Final_Baseline	0.43	252.69	252.91	252.88	252.95	0.028972	0.88	0.49	35.94	0.74
Reach18	3650.89	25 Year	DonPhaseII_Final_Proposed	0.43	252.69	252.92	252.88	252.95	0.028853	0.88	0.49	35.95	0.74
Reach18	3650.89	10 Year	DonPhaseII_Final_Baseline	0.38	252.69	252.90	252.87	252.94	0.031204	0.88	0.43	35.66	0.76
Reach18	3650.89	10 Year	DonPhaseII_Final_Proposed	0.38	252.69	252.90	252.87	252.94	0.031250	0.88	0.43	35.65	0.76
Reach18	3650.89	5 Year	DonPhaseII_Final_Baseline	0.34	252.69	252.88	252.86	252.92	0.033251	0.87	0.39	35.41	0.78
Reach18	3650.89	5 Year	DonPhaseII_Final_Proposed	0.34	252.69	252.88	252.86	252.92	0.033251	0.87	0.39	35.41	0.78
Reach18	3650.89	2 Year	DonPhaseII_Final_Baseline	0.29	252.69	252.87	252.85	252.90	0.034308	0.85	0.34	35.14	0.79
Reach18	3650.89	2 Year	DonPhaseII_Final_Proposed	0.29	252.69	252.87	252.85	252.90	0.034396	0.85	0.34	35.14	0.79
Reach18	3583.27	Regional	DonPhaseII_Final_Baseline	36.87	251.93	252.93	252.89	253.12	0.012873	3.15	32.42	64.76	1.03
Reach18	3583.27	Regional	DonPhaseII_Final_Proposed	36.87	251.93	252.93	252.89	253.12	0.012821	3.15	32.47	64.77	1.03
Reach18	3583.27	350 Year	DonPhaseII_Final_Baseline	3.70	251.93	252.33	252.31	252.40	0.010872	1.51	5.02	23.92	0.80
Reach18	3583.27	350 Year	DonPhaseII_Final_Proposed	3.70	251.93	252.33	252.31	252.40	0.010895	1.51	5.01	23.92	0.80
Reach18	3583.27	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	251.93	252.17	252.13	252.20	0.008194	0.89	1.51	17.32	0.63
Reach18	3583.27	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	251.93	252.17	252.13	252.20	0.008194	0.89	1.51	17.32	0.63
Reach18	3583.27	100 Year	DonPhaseII_Final_Baseline	0.65	251.93	252.14	252.10	252.17	0.007704	0.80	1.17	13.63	0.60
Reach18	3583.27	100 Year	DonPhaseII_Final_Proposed	0.65	251.93	252.14	252.10	252.17	0.007701	0.80	1.17	13.63	0.60
Reach18	3583.27	50 Year	DonPhaseII_Final_Baseline	0.52	251.93	252.13	252.08	252.15	0.007013	0.71	0.97	11.22	0.56
Reach18	3583.27	50 Year	DonPhaseII_Final_Proposed	0.52	251.93	252.13	252.08	252.15	0.007013	0.71	0.97	11.22	0.56
Reach18	3583.27	25 Year	DonPhaseII_Final_Baseline	0.43	251.93	252.12	252.07	252.14	0.006552	0.65	0.84	10.03	0.54

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	3583.27	25 Year	DonPhaseII_Final_Proposed	0.43	251.93	252.12	252.07	252.14	0.006564	0.65	0.84	10.02	0.54
Reach18	3583.27	10 Year	DonPhaseII_Final_Baseline	0.38	251.93	252.11	252.06	252.13	0.006239	0.62	0.76	9.17	0.52
Reach18	3583.27	10 Year	DonPhaseII_Final_Proposed	0.38	251.93	252.11	252.06	252.13	0.006233	0.61	0.76	9.18	0.52
Reach18	3583.27	5 Year	DonPhaseII_Final_Baseline	0.34	251.93	252.10	252.06	252.12	0.006004	0.58	0.70	8.22	0.51
Reach18	3583.27	5 Year	DonPhaseII_Final_Proposed	0.34	251.93	252.10	252.06	252.12	0.006004	0.58	0.70	8.22	0.51
Reach18	3583.27	2 Year	DonPhaseII_Final_Baseline	0.29	251.93	252.09	252.05	252.10	0.005867	0.55	0.62	7.37	0.49
Reach18	3583.27	2 Year	DonPhaseII_Final_Proposed	0.29	251.93	252.09	252.05	252.10	0.005861	0.55	0.62	7.38	0.49
Reach18	3512.22	Regional	DonPhaseII_Final_Baseline	36.87	251.46	252.36		252.44	0.007922	2.21	37.44	57.53	0.78
Reach18	3512.22	Regional	DonPhaseII_Final_Proposed	36.87	251.46	252.36		252.43	0.007983	2.21	37.35	57.51	0.79
Reach18	3512.22	350 Year	DonPhaseII_Final_Baseline	3.70	251.46	251.79		251.80	0.007093	0.91	7.56	41.82	0.60
Reach18	3512.22	350 Year	DonPhaseII_Final_Proposed	3.70	251.46	251.79		251.80	0.007076	0.91	7.57	41.83	0.60
Reach18	3512.22	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	251.46	251.60		251.61	0.009159	0.56	2.01	17.28	0.59
Reach18	3512.22	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	251.46	251.60		251.61	0.009159	0.56	2.01	17.28	0.59
Reach18	3512.22	100 Year	DonPhaseII_Final_Baseline	0.65	251.46	251.57		251.58	0.009848	0.50	1.60	15.39	0.59
Reach18	3512.22	100 Year	DonPhaseII_Final_Proposed	0.65	251.46	251.57		251.58	0.009843	0.50	1.60	15.39	0.59
Reach18	3512.22	50 Year	DonPhaseII_Final_Baseline	0.52	251.46	251.55		251.56	0.011000	0.47	1.30	14.74	0.60
Reach18	3512.22	50 Year	DonPhaseII_Final_Proposed	0.52	251.46	251.55		251.56	0.011000	0.47	1.30	14.74	0.60
Reach18	3512.22	25 Year	DonPhaseII_Final_Baseline	0.43	251.46	251.54		251.55	0.011949	0.43	1.09	14.17	0.61
Reach18	3512.22	25 Year	DonPhaseII_Final_Proposed	0.43	251.46	251.54		251.55	0.011993	0.43	1.09	14.17	0.61
Reach18	3512.22	10 Year	DonPhaseII_Final_Baseline	0.38	251.46	251.53		251.54	0.012963	0.40	0.96	13.65	0.62
Reach18	3512.22	10 Year	DonPhaseII_Final_Proposed	0.38	251.46	251.53		251.54	0.013014	0.40	0.95	13.65	0.62
Reach18	3512.22	5 Year	DonPhaseII_Final_Baseline	0.34	251.46	251.52		251.53	0.013704	0.38	0.85	13.22	0.62
Reach18	3512.22	5 Year	DonPhaseII_Final_Proposed	0.34	251.46	251.52		251.53	0.013704	0.38	0.85	13.22	0.62
Reach18	3512.22	2 Year	DonPhaseII_Final_Baseline	0.29	251.46	251.51		251.52	0.014178	0.35	0.73	12.66	0.61
Reach18	3512.22	2 Year	DonPhaseII_Final_Proposed	0.29	251.46	251.51		251.52	0.014167	0.35	0.73	12.66	0.61
Reach18	3432	Regional	DonPhaseII_Final_Baseline	36.87	251.10	251.84		251.90	0.007430	1.93	40.20	57.54	0.74
Reach18	3432	Regional	DonPhaseII_Final_Proposed	36.87	251.10	251.86		251.91	0.007036	1.90	40.93	57.79	0.72
Reach18	3432	350 Year	DonPhaseII_Final_Baseline	3.70	251.10	251.20		251.21	0.010514	0.44	8.24	42.52	0.58
Reach18	3432	350 Year	DonPhaseII_Final_Proposed	3.70	251.10	251.20		251.21	0.010564	0.44	8.23	42.50	0.58
Reach18	3432	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	251.10	251.07		251.07	0.006698		3.29	29.31	0.00
Reach18	3432	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	251.10	251.07		251.07	0.006698		3.29	29.31	0.00
Reach18	3432	100 Year	DonPhaseII_Final_Baseline	0.65	251.10	251.05		251.06	0.006163		2.80	27.81	0.00
Reach18	3432	100 Year	DonPhaseII_Final_Proposed	0.65	251.10	251.05		251.06	0.006166		2.80	27.81	0.00
Reach18	3432	50 Year	DonPhaseII_Final_Baseline	0.52	251.10	251.04		251.04	0.005507		2.48	26.74	0.00
Reach18	3432	50 Year	DonPhaseII_Final_Proposed	0.52	251.10	251.04		251.04	0.005507		2.48	26.74	0.00
Reach18	3432	25 Year	DonPhaseII_Final_Baseline	0.43	251.10	251.03		251.03	0.005211		2.18	24.37	0.00
Reach18	3432	25 Year	DonPhaseII_Final_Proposed	0.43	251.10	251.03		251.03	0.005193		2.18	24.38	0.00
Reach18	3432	10 Year	DonPhaseII_Final_Baseline	0.38	251.10	251.02		251.02	0.004935		2.04	23.58	0.00
Reach18	3432	10 Year	DonPhaseII_Final_Proposed	0.38	251.10	251.02		251.02	0.004947		2.03	23.57	0.00
Reach18	3432	5 Year	DonPhaseII_Final_Baseline	0.34	251.10	251.02		251.02	0.004747		1.91	22.60	0.00
Reach18	3432	5 Year	DonPhaseII_Final_Proposed	0.34	251.10	251.02		251.02	0.004747		1.91	22.60	0.00
Reach18	3432	2 Year	DonPhaseII_Final_Baseline	0.29	251.10	251.01		251.01	0.004612		1.72	20.86	0.00
Reach18	3432	2 Year	DonPhaseII_Final_Proposed	0.29	251.10	251.01		251.01	0.004618		1.72	20.85	0.00
Reach18	3369.23	Regional	DonPhaseII_Final_Baseline	36.87	250.35	251.28		251.39	0.008850	2.51	34.21	52.31	0.84
Reach18	3369.23	Regional	DonPhaseII_Final_Proposed	36.87	250.35	251.31		251.42	0.008633	2.52	32.47	42.02	0.84
Reach18	3369.23	350 Year	DonPhaseII_Final_Baseline	3.70	250.35	250.70		250.73	0.006061	1.04	8.17	37.65	0.59

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	3369.23	350 Year	DonPhaseII_Final_Proposed	3.70	250.35	250.70		250.73	0.006029	1.04	8.19	37.48	0.59
Reach18	3369.23	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	250.35	250.53		250.54	0.010575	0.81	2.29	27.44	0.68
Reach18	3369.23	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	250.35	250.53		250.54	0.010543	0.81	2.29	27.44	0.68
Reach18	3369.23	100 Year	DonPhaseII_Final_Baseline	0.65	250.35	250.51		250.53	0.011714	0.77	1.77	25.93	0.70
Reach18	3369.23	100 Year	DonPhaseII_Final_Proposed	0.65	250.35	250.51		250.53	0.011746	0.77	1.77	25.92	0.70
Reach18	3369.23	50 Year	DonPhaseII_Final_Baseline	0.52	250.35	250.49		250.51	0.013956	0.77	1.38	24.33	0.75
Reach18	3369.23	50 Year	DonPhaseII_Final_Proposed	0.52	250.35	250.49		250.51	0.013934	0.77	1.38	24.33	0.74
Reach18	3369.23	25 Year	DonPhaseII_Final_Baseline	0.43	250.35	250.48	250.47	250.50	0.014932	0.75	1.13	22.89	0.76
Reach18	3369.23	25 Year	DonPhaseII_Final_Proposed	0.43	250.35	250.48	250.47	250.50	0.015020	0.75	1.12	22.86	0.76
Reach18	3369.23	10 Year	DonPhaseII_Final_Baseline	0.38	250.35	250.47	250.47	250.49	0.016359	0.74	0.97	21.21	0.78
Reach18	3369.23	10 Year	DonPhaseII_Final_Proposed	0.38	250.35	250.47	250.47	250.49	0.016389	0.74	0.97	21.20	0.78
Reach18	3369.23	5 Year	DonPhaseII_Final_Baseline	0.34	250.35	250.47	250.46	250.49	0.017460	0.73	0.85	19.88	0.80
Reach18	3369.23	5 Year	DonPhaseII_Final_Proposed	0.34	250.35	250.47	250.46	250.49	0.017476	0.73	0.85	19.87	0.80
Reach18	3369.23	2 Year	DonPhaseII_Final_Baseline	0.29	250.35	250.46	250.46	250.48	0.018694	0.72	0.71	18.21	0.82
Reach18	3369.23	2 Year	DonPhaseII_Final_Proposed	0.29	250.35	250.46	250.46	250.48	0.018655	0.72	0.72	18.21	0.82
Reach18	3324.56	Regional	DonPhaseII_Final_Baseline	36.87	250.30	251.19	250.79	251.23	0.001610	0.99	45.57	66.83	0.34
Reach18	3324.56	Regional	DonPhaseII_Final_Proposed	36.87	250.30	251.24	250.79	251.28	0.001328	0.93	47.01	60.87	0.32
Reach18	3324.56	350 Year	DonPhaseII_Final_Baseline	3.70	250.30	250.66	250.45	250.67	0.000526	0.29	13.06	51.10	0.17
Reach18	3324.56	350 Year	DonPhaseII_Final_Proposed	3.70	250.30	250.66	250.45	250.67	0.000522	0.29	13.09	51.15	0.17
Reach18	3324.56	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	250.30	250.48	250.38	250.49	0.000436	0.15	5.52	41.19	0.13
Reach18	3324.56	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	250.30	250.48	250.38	250.49	0.000448	0.16	5.47	41.17	0.14
Reach18	3324.56	100 Year	DonPhaseII_Final_Baseline	0.65	250.30	250.47	250.38	250.47	0.000423	0.14	4.74	40.93	0.13
Reach18	3324.56	100 Year	DonPhaseII_Final_Proposed	0.65	250.30	250.47	250.38	250.47	0.000419	0.14	4.75	40.94	0.13
Reach18	3324.56	50 Year	DonPhaseII_Final_Baseline	0.52	250.30	250.45	250.37	250.46	0.000377	0.12	4.28	40.78	0.12
Reach18	3324.56	50 Year	DonPhaseII_Final_Proposed	0.52	250.30	250.45	250.37	250.46	0.000378	0.12	4.28	40.78	0.12
Reach18	3324.56	25 Year	DonPhaseII_Final_Baseline	0.43	250.30	250.44	250.37	250.44	0.000385	0.11	3.79	40.62	0.12
Reach18	3324.56	25 Year	DonPhaseII_Final_Proposed	0.43	250.30	250.44	250.37	250.44	0.000383	0.11	3.80	40.62	0.12
Reach18	3324.56	10 Year	DonPhaseII_Final_Baseline	0.38	250.30	250.44	250.36	250.44	0.000366	0.11	3.57	40.54	0.11
Reach18	3324.56	10 Year	DonPhaseII_Final_Proposed	0.38	250.30	250.44	250.36	250.44	0.000365	0.11	3.57	40.55	0.11
Reach18	3324.56	5 Year	DonPhaseII_Final_Baseline	0.34	250.30	250.43	250.36	250.43	0.000361	0.10	3.35	40.47	0.11
Reach18	3324.56	5 Year	DonPhaseII_Final_Proposed	0.34	250.30	250.43	250.36	250.43	0.000361	0.10	3.35	40.47	0.11
Reach18	3324.56	2 Year	DonPhaseII_Final_Baseline	0.29	250.30	250.42	250.36	250.42	0.000361	0.10	3.04	40.37	0.11
Reach18	3324.56	2 Year	DonPhaseII_Final_Proposed	0.29	250.30	250.42	250.36	250.42	0.000362	0.10	3.04	40.37	0.11
Reach18	3270.27	Regional	DonPhaseII_Final_Baseline	41.74	250.29	250.99	250.79	251.08	0.005722	1.64	41.20	69.25	0.64
Reach18	3270.27	Regional	DonPhaseII_Final_Proposed	41.74	250.29	251.06	250.82	251.15	0.004802	1.61	39.18	56.75	0.60
Reach18	3270.27	350 Year	DonPhaseII_Final_Baseline	4.23	250.29	250.48	250.48	250.56	0.022514	1.26	3.36	53.72	1.01
Reach18	3270.27	350 Year	DonPhaseII_Final_Proposed	4.23	250.29	250.48	250.48	250.56	0.022514	1.26	3.36	45.01	1.01
Reach18	3270.27	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	250.29	250.37	250.37	250.40	0.030092	0.75	1.17	35.35	0.99
Reach18	3270.27	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	250.29	250.37	250.37	250.40	0.030092	0.75	1.17	33.37	0.99
Reach18	3270.27	100 Year	DonPhaseII_Final_Baseline	0.68	250.29	250.36	250.36	250.39	0.034199	0.71	0.96	33.86	1.02
Reach18	3270.27	100 Year	DonPhaseII_Final_Proposed	0.68	250.29	250.36	250.36	250.39	0.034199	0.71	0.96	32.49	1.02
Reach18	3270.27	50 Year	DonPhaseII_Final_Baseline	0.56	250.29	250.36	250.36	250.38	0.032862	0.65	0.86	33.31	0.99
Reach18	3270.27	50 Year	DonPhaseII_Final_Proposed	0.56	250.29	250.36	250.36	250.38	0.033769	0.66	0.85	32.21	1.00
Reach18	3270.27	25 Year	DonPhaseII_Final_Baseline	0.46	250.29	250.35	250.35	250.37	0.031357	0.59	0.77	32.76	0.95
Reach18	3270.27	25 Year	DonPhaseII_Final_Proposed	0.46	250.29	250.35	250.35	250.37	0.032122	0.60	0.77	31.93	0.96
Reach18	3270.27	10 Year	DonPhaseII_Final_Baseline	0.41	250.29	250.35	250.35	250.37	0.030024	0.56	0.73	32.49	0.92
Reach18	3270.27	10 Year	DonPhaseII_Final_Proposed	0.41	250.29	250.35	250.35	250.37	0.030897	0.57	0.72	31.78	0.93

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	3270.27	5 Year	DonPhaseII_Final_Baseline	0.37	250.29	250.35	250.35	250.36	0.028478	0.53	0.70	32.28	0.89
Reach18	3270.27	5 Year	DonPhaseII_Final_Proposed	0.37	250.29	250.35	250.35	250.36	0.029394	0.54	0.69	31.67	0.90
Reach18	3270.27	2 Year	DonPhaseII_Final_Baseline	0.31	250.29	250.35	250.34	250.36	0.027675	0.49	0.63	31.89	0.86
Reach18	3270.27	2 Year	DonPhaseII_Final_Proposed	0.31	250.29	250.35	250.34	250.36	0.028134	0.49	0.63	31.49	0.87
Reach18	3238.80*	Regional	DonPhaseII_Final_Baseline	41.74	249.31	250.82		250.95	0.003688	1.84	37.56	52.39	0.50
Reach18	3238.80*	Regional	DonPhaseII_Final_Proposed	41.74	249.31	250.96		251.02	0.003847	1.18	42.71	43.00	0.34
Reach18	3238.80*	350 Year	DonPhaseII_Final_Baseline	4.23	249.31	249.76		249.81	0.006497	0.97	4.36	12.29	0.52
Reach18	3238.80*	350 Year	DonPhaseII_Final_Proposed	4.23	249.31	249.79		249.83	0.005504	0.90	4.70	12.45	0.47
Reach18	3238.80*	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	249.31	249.48		249.51	0.017681	0.78	1.14	9.32	0.71
Reach18	3238.80*	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	249.31	249.48		249.51	0.016605	0.75	1.17	9.41	0.68
Reach18	3238.80*	100 Year	DonPhaseII_Final_Baseline	0.68	249.31	249.45	249.43	249.48	0.024176	0.79	0.86	8.67	0.80
Reach18	3238.80*	100 Year	DonPhaseII_Final_Proposed	0.68	249.31	249.45	249.43	249.48	0.023179	0.77	0.89	8.73	0.77
Reach18	3238.80*	50 Year	DonPhaseII_Final_Baseline	0.56	249.31	249.43	249.42	249.46	0.026204	0.76	0.74	8.38	0.81
Reach18	3238.80*	50 Year	DonPhaseII_Final_Proposed	0.56	249.31	249.43	249.42	249.46	0.025323	0.74	0.76	8.43	0.79
Reach18	3238.80*	25 Year	DonPhaseII_Final_Baseline	0.46	249.31	249.42	249.41	249.45	0.027728	0.72	0.64	8.07	0.82
Reach18	3238.80*	25 Year	DonPhaseII_Final_Proposed	0.46	249.31	249.42	249.41	249.45	0.026763	0.70	0.66	8.12	0.79
Reach18	3238.80*	10 Year	DonPhaseII_Final_Baseline	0.41	249.31	249.41	249.40	249.44	0.028862	0.70	0.58	7.88	0.83
Reach18	3238.80*	10 Year	DonPhaseII_Final_Proposed	0.41	249.31	249.42	249.40	249.44	0.028054	0.69	0.60	7.93	0.80
Reach18	3238.80*	5 Year	DonPhaseII_Final_Baseline	0.37	249.31	249.41	249.40	249.43	0.030836	0.69	0.53	7.70	0.84
Reach18	3238.80*	5 Year	DonPhaseII_Final_Proposed	0.37	249.31	249.41	249.40	249.43	0.029750	0.67	0.55	7.75	0.81
Reach18	3238.80*	2 Year	DonPhaseII_Final_Baseline	0.31	249.31	249.40	249.39	249.42	0.032269	0.66	0.47	7.42	0.85
Reach18	3238.80*	2 Year	DonPhaseII_Final_Proposed	0.31	249.31	249.40	249.39	249.42	0.031437	0.65	0.48	7.48	0.82
Reach18	3207.34	Regional	DonPhaseII_Final_Baseline	41.74	248.33	250.45	250.45	250.79	0.008144	3.67	31.40	42.75	0.86
Reach18	3207.34	Regional	DonPhaseII_Final_Proposed	41.74	248.33	250.45	250.45	250.79	0.008144	3.67	31.40	42.75	0.86
Reach18	3207.34	350 Year	DonPhaseII_Final_Baseline	4.23	248.33	249.20	249.20	249.49	0.015145	2.39	1.93	4.04	0.97
Reach18	3207.34	350 Year	DonPhaseII_Final_Proposed	4.23	248.33	249.20	249.20	249.49	0.015145	2.39	1.93	4.04	0.97
Reach18	3207.34	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	248.33	248.76	248.76	248.89	0.021634	1.58	0.56	2.23	1.01
Reach18	3207.34	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	248.33	248.76	248.76	248.89	0.021634	1.58	0.56	2.23	1.01
Reach18	3207.34	100 Year	DonPhaseII_Final_Baseline	0.68	248.33	248.73	248.71	248.83	0.017617	1.37	0.50	2.13	0.90
Reach18	3207.34	100 Year	DonPhaseII_Final_Proposed	0.68	248.33	248.73	248.71	248.83	0.017617	1.37	0.50	2.13	0.90
Reach18	3207.34	50 Year	DonPhaseII_Final_Baseline	0.56	248.33	248.70	248.68	248.78	0.017615	1.29	0.43	2.01	0.89
Reach18	3207.34	50 Year	DonPhaseII_Final_Proposed	0.56	248.33	248.70	248.68	248.78	0.017615	1.29	0.43	2.01	0.89
Reach18	3207.34	25 Year	DonPhaseII_Final_Baseline	0.46	248.33	248.67	248.65	248.75	0.017990	1.23	0.37	1.90	0.89
Reach18	3207.34	25 Year	DonPhaseII_Final_Proposed	0.46	248.33	248.67	248.65	248.75	0.017990	1.23	0.37	1.90	0.89
Reach18	3207.34	10 Year	DonPhaseII_Final_Baseline	0.41	248.33	248.65	248.63	248.73	0.017983	1.19	0.34	1.84	0.88
Reach18	3207.34	10 Year	DonPhaseII_Final_Proposed	0.41	248.33	248.65	248.63	248.73	0.017983	1.19	0.34	1.84	0.88
Reach18	3207.34	5 Year	DonPhaseII_Final_Baseline	0.37	248.33	248.64	248.62	248.71	0.017634	1.15	0.32	1.80	0.87
Reach18	3207.34	5 Year	DonPhaseII_Final_Proposed	0.37	248.33	248.64	248.62	248.71	0.017634	1.15	0.32	1.80	0.87
Reach18	3207.34	2 Year	DonPhaseII_Final_Baseline	0.31	248.33	248.62	248.60	248.68	0.017856	1.10	0.28	1.71	0.86
Reach18	3207.34	2 Year	DonPhaseII_Final_Proposed	0.31	248.33	248.62	248.60	248.68	0.017856	1.10	0.28	1.71	0.86
Reach18	3169	Regional	DonPhaseII_Final_Baseline	41.74	247.75	249.39	249.34	249.90	0.013191	4.30	20.04	18.91	1.11
Reach18	3169	Regional	DonPhaseII_Final_Proposed	41.74	247.75	249.39	249.34	249.90	0.013192	4.30	20.04	18.91	1.11
Reach18	3169	350 Year	DonPhaseII_Final_Baseline	4.23	247.75	248.34	248.33	248.48	0.013323	1.98	3.80	12.45	0.92
Reach18	3169	350 Year	DonPhaseII_Final_Proposed	4.23	247.75	248.34	248.33	248.48	0.013323	1.98	3.80	12.45	0.92
Reach18	3169	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	247.75	248.09	248.09	248.17	0.013471	1.22	0.95	10.32	0.82
Reach18	3169	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	247.75	248.09	248.09	248.17	0.013471	1.22	0.95	10.32	0.82

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	3169	100 Year	DonPhaseII_Final_Baseline	0.68	247.75	248.05	248.04	248.12	0.018568	1.22	0.59	4.61	0.93
Reach18	3169	100 Year	DonPhaseII_Final_Proposed	0.68	247.75	248.05	248.04	248.12	0.018568	1.22	0.59	4.61	0.93
Reach18	3169	50 Year	DonPhaseII_Final_Baseline	0.56	247.75	248.03	248.02	248.09	0.017905	1.12	0.51	3.82	0.89
Reach18	3169	50 Year	DonPhaseII_Final_Proposed	0.56	247.75	248.03	248.02	248.09	0.017905	1.12	0.51	3.82	0.89
Reach18	3169	25 Year	DonPhaseII_Final_Baseline	0.46	247.75	248.02	248.00	248.07	0.016899	1.02	0.46	3.53	0.85
Reach18	3169	25 Year	DonPhaseII_Final_Proposed	0.46	247.75	248.02	248.00	248.07	0.016899	1.02	0.46	3.53	0.85
Reach18	3169	10 Year	DonPhaseII_Final_Baseline	0.41	247.75	248.01	247.99	248.05	0.016392	0.96	0.43	3.38	0.83
Reach18	3169	10 Year	DonPhaseII_Final_Proposed	0.41	247.75	248.01	247.99	248.05	0.016392	0.96	0.43	3.38	0.83
Reach18	3169	5 Year	DonPhaseII_Final_Baseline	0.37	247.75	248.00	247.98	248.04	0.016490	0.94	0.40	3.21	0.83
Reach18	3169	5 Year	DonPhaseII_Final_Proposed	0.37	247.75	248.00	247.98	248.04	0.016490	0.94	0.40	3.21	0.83
Reach18	3169	2 Year	DonPhaseII_Final_Baseline	0.31	247.75	247.98	247.96	248.02	0.015956	0.88	0.35	3.01	0.80
Reach18	3169	2 Year	DonPhaseII_Final_Proposed	0.31	247.75	247.98	247.96	248.02	0.015956	0.88	0.35	3.01	0.80
Reach18	3131.52	Regional	DonPhaseII_Final_Baseline	41.74	247.39	248.85	248.85	249.41	0.014520	4.28	18.58	18.32	1.16
Reach18	3131.52	Regional	DonPhaseII_Final_Proposed	41.74	247.39	248.85	248.85	249.41	0.014520	4.28	18.58	18.32	1.16
Reach18	3131.52	350 Year	DonPhaseII_Final_Baseline	4.23	247.39	247.90	247.87	248.02	0.012185	1.82	3.78	12.44	0.88
Reach18	3131.52	350 Year	DonPhaseII_Final_Proposed	4.23	247.39	247.90	247.87	248.02	0.012185	1.82	3.78	12.44	0.88
Reach18	3131.52	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	247.39	247.67		247.71	0.007940	0.91	1.32	8.86	0.63
Reach18	3131.52	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	247.39	247.67		247.71	0.007940	0.91	1.32	8.86	0.63
Reach18	3131.52	100 Year	DonPhaseII_Final_Baseline	0.68	247.39	247.64		247.67	0.008117	0.84	1.07	8.18	0.62
Reach18	3131.52	100 Year	DonPhaseII_Final_Proposed	0.68	247.39	247.64		247.67	0.008117	0.84	1.07	8.18	0.62
Reach18	3131.52	50 Year	DonPhaseII_Final_Baseline	0.56	247.39	247.62		247.65	0.008221	0.78	0.91	7.76	0.61
Reach18	3131.52	50 Year	DonPhaseII_Final_Proposed	0.56	247.39	247.62		247.65	0.008221	0.78	0.91	7.76	0.61
Reach18	3131.52	25 Year	DonPhaseII_Final_Baseline	0.46	247.39	247.61		247.63	0.008356	0.73	0.78	7.37	0.61
Reach18	3131.52	25 Year	DonPhaseII_Final_Proposed	0.46	247.39	247.61		247.63	0.008356	0.73	0.78	7.37	0.61
Reach18	3131.52	10 Year	DonPhaseII_Final_Baseline	0.41	247.39	247.60		247.62	0.008393	0.70	0.71	7.17	0.60
Reach18	3131.52	10 Year	DonPhaseII_Final_Proposed	0.41	247.39	247.60		247.62	0.008393	0.70	0.71	7.17	0.60
Reach18	3131.52	5 Year	DonPhaseII_Final_Baseline	0.37	247.39	247.59	247.55	247.61	0.008392	0.68	0.66	6.99	0.60
Reach18	3131.52	5 Year	DonPhaseII_Final_Proposed	0.37	247.39	247.59	247.55	247.61	0.008392	0.68	0.66	6.99	0.60
Reach18	3131.52	2 Year	DonPhaseII_Final_Baseline	0.31	247.39	247.58		247.60	0.008438	0.64	0.57	6.61	0.59
Reach18	3131.52	2 Year	DonPhaseII_Final_Proposed	0.31	247.39	247.58		247.60	0.008438	0.64	0.57	6.61	0.59
Reach18	3068.55	Regional	DonPhaseII_Final_Baseline	41.74	246.49	247.94	247.94	248.23	0.012093	3.53	29.61	44.63	1.01
Reach18	3068.55	Regional	DonPhaseII_Final_Proposed	41.74	246.49	247.94	247.94	248.23	0.012093	3.53	29.61	44.63	1.01
Reach18	3068.55	350 Year	DonPhaseII_Final_Baseline	4.23	246.49	247.25	247.25	247.39	0.008572	1.74	3.89	23.12	0.74
Reach18	3068.55	350 Year	DonPhaseII_Final_Proposed	4.23	246.49	247.25	247.25	247.39	0.008572	1.74	3.89	23.12	0.74
Reach18	3068.55	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	246.49	246.82	246.82	246.93	0.021402	1.48	0.60	2.69	1.01
Reach18	3068.55	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	246.49	246.82	246.82	246.93	0.021402	1.48	0.60	2.69	1.01
Reach18	3068.55	100 Year	DonPhaseII_Final_Baseline	0.68	246.49	246.77	246.77	246.87	0.022230	1.41	0.48	2.45	1.01
Reach18	3068.55	100 Year	DonPhaseII_Final_Proposed	0.68	246.49	246.77	246.77	246.87	0.022230	1.41	0.48	2.45	1.01
Reach18	3068.55	50 Year	DonPhaseII_Final_Baseline	0.56	246.49	246.75	246.75	246.84	0.022740	1.34	0.42	2.30	1.01
Reach18	3068.55	50 Year	DonPhaseII_Final_Proposed	0.56	246.49	246.75	246.75	246.84	0.022740	1.34	0.42	2.30	1.01
Reach18	3068.55	25 Year	DonPhaseII_Final_Baseline	0.46	246.49	246.72	246.72	246.80	0.023330	1.28	0.36	2.16	1.01
Reach18	3068.55	25 Year	DonPhaseII_Final_Proposed	0.46	246.49	246.72	246.72	246.80	0.023330	1.28	0.36	2.16	1.01
Reach18	3068.55	10 Year	DonPhaseII_Final_Baseline	0.41	246.49	246.70	246.70	246.78	0.023673	1.25	0.33	2.09	1.01
Reach18	3068.55	10 Year	DonPhaseII_Final_Proposed	0.41	246.49	246.70	246.70	246.78	0.023673	1.25	0.33	2.09	1.01
Reach18	3068.55	5 Year	DonPhaseII_Final_Baseline	0.37	246.49	246.69	246.69	246.77	0.024131	1.22	0.30	2.02	1.01
Reach18	3068.55	5 Year	DonPhaseII_Final_Proposed	0.37	246.49	246.69	246.69	246.77	0.024131	1.22	0.30	2.02	1.01
Reach18	3068.55	2 Year	DonPhaseII_Final_Baseline	0.31	246.49	246.67	246.67	246.74	0.024826	1.17	0.26	1.92	1.01

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	3068.55	2 Year	DonPhaseII_Final_Proposed	0.31	246.49	246.67	246.67	246.74	0.024826	1.17	0.26	1.92	1.01
Reach18	3011.21	Regional	DonPhaseII_Final_Baseline	41.74	245.49	246.97	246.97	247.21	0.016064	3.13	29.49	53.03	0.96
Reach18	3011.21	Regional	DonPhaseII_Final_Proposed	41.74	245.49	246.97	246.97	247.21	0.016064	3.13	29.49	53.03	0.96
Reach18	3011.21	350 Year	DonPhaseII_Final_Baseline	4.23	245.49	246.40	246.28	246.52	0.010203	1.53	3.07	17.89	0.68
Reach18	3011.21	350 Year	DonPhaseII_Final_Proposed	4.23	245.49	246.40	246.28	246.52	0.010203	1.53	3.07	17.89	0.68
Reach18	3011.21	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	245.49	245.99	245.92	246.05	0.008724	1.02	0.87	3.50	0.66
Reach18	3011.21	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	245.49	245.99	245.92	246.05	0.008724	1.02	0.87	3.50	0.66
Reach18	3011.21	100 Year	DonPhaseII_Final_Baseline	0.68	245.49	245.95	245.88	246.00	0.008372	0.94	0.73	3.24	0.63
Reach18	3011.21	100 Year	DonPhaseII_Final_Proposed	0.68	245.49	245.95	245.88	246.00	0.008372	0.94	0.73	3.24	0.63
Reach18	3011.21	50 Year	DonPhaseII_Final_Baseline	0.56	245.49	245.92	245.85	245.96	0.008221	0.88	0.63	3.05	0.62
Reach18	3011.21	50 Year	DonPhaseII_Final_Proposed	0.56	245.49	245.92	245.85	245.96	0.008221	0.88	0.63	3.05	0.62
Reach18	3011.21	25 Year	DonPhaseII_Final_Baseline	0.46	245.49	245.89	245.82	245.93	0.008125	0.84	0.55	2.85	0.61
Reach18	3011.21	25 Year	DonPhaseII_Final_Proposed	0.46	245.49	245.89	245.82	245.93	0.008125	0.84	0.55	2.85	0.61
Reach18	3011.21	10 Year	DonPhaseII_Final_Baseline	0.41	245.49	245.88	245.81	245.91	0.008018	0.81	0.51	2.74	0.60
Reach18	3011.21	10 Year	DonPhaseII_Final_Proposed	0.41	245.49	245.88	245.81	245.91	0.008018	0.81	0.51	2.74	0.60
Reach18	3011.21	5 Year	DonPhaseII_Final_Baseline	0.37	245.49	245.86	245.79	245.90	0.008030	0.79	0.47	2.63	0.60
Reach18	3011.21	5 Year	DonPhaseII_Final_Proposed	0.37	245.49	245.86	245.79	245.90	0.008030	0.79	0.47	2.63	0.60
Reach18	3011.21	2 Year	DonPhaseII_Final_Baseline	0.31	245.49	245.84	245.77	245.87	0.007746	0.75	0.42	2.46	0.58
Reach18	3011.21	2 Year	DonPhaseII_Final_Proposed	0.31	245.49	245.84	245.77	245.87	0.007746	0.75	0.42	2.46	0.58
Reach18	2911.6	Regional	DonPhaseII_Final_Baseline	41.74	244.35	245.97	245.61	246.01	0.002467	1.57	65.31	82.19	0.43
Reach18	2911.6	Regional	DonPhaseII_Final_Proposed	41.74	244.35	245.97	245.61	246.01	0.002467	1.57	65.31	82.19	0.43
Reach18	2911.6	350 Year	DonPhaseII_Final_Baseline	4.23	244.35	244.98	244.98	245.17	0.018705	1.95	2.18	12.62	0.99
Reach18	2911.6	350 Year	DonPhaseII_Final_Proposed	4.23	244.35	244.98	244.98	245.17	0.018705	1.95	2.18	12.62	0.99
Reach18	2911.6	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	244.35	244.65	244.65	244.74	0.021497	1.33	0.66	3.61	0.99
Reach18	2911.6	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	244.35	244.65	244.65	244.74	0.021497	1.33	0.66	3.61	0.99
Reach18	2911.6	100 Year	DonPhaseII_Final_Baseline	0.68	244.35	244.61	244.61	244.70	0.022858	1.29	0.53	3.18	1.01
Reach18	2911.6	100 Year	DonPhaseII_Final_Proposed	0.68	244.35	244.61	244.61	244.70	0.022858	1.29	0.53	3.18	1.01
Reach18	2911.6	50 Year	DonPhaseII_Final_Baseline	0.56	244.35	244.59	244.59	244.67	0.023392	1.24	0.45	2.90	1.01
Reach18	2911.6	50 Year	DonPhaseII_Final_Proposed	0.56	244.35	244.59	244.59	244.67	0.023392	1.24	0.45	2.90	1.01
Reach18	2911.6	25 Year	DonPhaseII_Final_Baseline	0.46	244.35	244.56	244.56	244.64	0.023758	1.20	0.38	2.65	1.00
Reach18	2911.6	25 Year	DonPhaseII_Final_Proposed	0.46	244.35	244.56	244.56	244.64	0.023758	1.20	0.38	2.65	1.00
Reach18	2911.6	10 Year	DonPhaseII_Final_Baseline	0.41	244.35	244.55	244.55	244.62	0.024177	1.18	0.35	2.50	1.01
Reach18	2911.6	10 Year	DonPhaseII_Final_Proposed	0.41	244.35	244.55	244.55	244.62	0.024177	1.18	0.35	2.50	1.01
Reach18	2911.6	5 Year	DonPhaseII_Final_Baseline	0.37	244.35	244.54	244.54	244.61	0.024050	1.14	0.32	2.42	1.00
Reach18	2911.6	5 Year	DonPhaseII_Final_Proposed	0.37	244.35	244.54	244.54	244.61	0.024050	1.14	0.32	2.42	1.00
Reach18	2911.6	2 Year	DonPhaseII_Final_Baseline	0.31	244.35	244.52	244.52	244.58	0.025422	1.11	0.28	2.28	1.01
Reach18	2911.6	2 Year	DonPhaseII_Final_Proposed	0.31	244.35	244.52	244.52	244.58	0.025422	1.11	0.28	2.28	1.01
Reach18	2849.55	Regional	DonPhaseII_Final_Baseline	41.74	243.60	245.93		245.95	0.000482	1.01	115.39	98.53	0.22
Reach18	2849.55	Regional	DonPhaseII_Final_Proposed	41.74	243.60	245.93		245.95	0.000482	1.01	115.39	98.53	0.22
Reach18	2849.55	350 Year	DonPhaseII_Final_Baseline	4.23	243.60	244.26	244.20	244.33	0.007014	1.32	6.00	26.50	0.65
Reach18	2849.55	350 Year	DonPhaseII_Final_Proposed	4.23	243.60	244.26	244.20	244.33	0.007014	1.32	6.00	26.50	0.65
Reach18	2849.55	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	243.60	244.04		244.06	0.005034	0.77	1.54	8.81	0.50
Reach18	2849.55	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	243.60	244.04		244.06	0.005034	0.77	1.54	8.81	0.50
Reach18	2849.55	100 Year	DonPhaseII_Final_Baseline	0.68	243.60	243.99		244.02	0.004884	0.73	1.19	7.08	0.49
Reach18	2849.55	100 Year	DonPhaseII_Final_Proposed	0.68	243.60	243.99		244.02	0.004884	0.73	1.19	7.08	0.49
Reach18	2849.55	50 Year	DonPhaseII_Final_Baseline	0.56	243.60	243.96		243.99	0.004794	0.69	1.01	6.33	0.48

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2849.55	50 Year	DonPhaseII_Final_Proposed	0.56	243.60	243.96		243.99	0.004794	0.69	1.01	6.33	0.48
Reach18	2849.55	25 Year	DonPhaseII_Final_Baseline	0.46	243.60	243.94		243.96	0.004798	0.66	0.85	5.77	0.47
Reach18	2849.55	25 Year	DonPhaseII_Final_Proposed	0.46	243.60	243.94		243.96	0.004798	0.66	0.85	5.77	0.47
Reach18	2849.55	10 Year	DonPhaseII_Final_Baseline	0.41	243.60	243.92		243.94	0.004877	0.64	0.77	5.47	0.47
Reach18	2849.55	10 Year	DonPhaseII_Final_Proposed	0.41	243.60	243.92		243.94	0.004877	0.64	0.77	5.47	0.47
Reach18	2849.55	5 Year	DonPhaseII_Final_Baseline	0.37	243.60	243.91		243.93	0.004832	0.63	0.70	5.24	0.47
Reach18	2849.55	5 Year	DonPhaseII_Final_Proposed	0.37	243.60	243.91		243.93	0.004832	0.63	0.70	5.24	0.47
Reach18	2849.55	2 Year	DonPhaseII_Final_Baseline	0.31	243.60	243.89		243.91	0.004977	0.60	0.59	4.81	0.47
Reach18	2849.55	2 Year	DonPhaseII_Final_Proposed	0.31	243.60	243.89		243.91	0.004977	0.60	0.59	4.81	0.47
Reach18	2797.98	Regional	DonPhaseII_Final_Baseline	41.74	243.30	245.93		245.93	0.000128	0.48	188.05	111.14	0.10
Reach18	2797.98	Regional	DonPhaseII_Final_Proposed	41.74	243.30	245.93		245.93	0.000128	0.48	188.05	111.14	0.10
Reach18	2797.98	350 Year	DonPhaseII_Final_Baseline	4.23	243.30	243.79	243.78	243.87	0.014002	1.50	5.24	35.90	0.86
Reach18	2797.98	350 Year	DonPhaseII_Final_Proposed	4.23	243.30	243.79	243.78	243.87	0.014002	1.50	5.24	35.90	0.86
Reach18	2797.98	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	243.30	243.59	243.59	243.65	0.015198	1.10	0.99	10.15	0.88
Reach18	2797.98	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	243.30	243.59	243.59	243.65	0.015198	1.10	0.99	10.15	0.88
Reach18	2797.98	100 Year	DonPhaseII_Final_Baseline	0.68	243.30	243.57	243.56	243.62	0.014204	1.00	0.79	9.15	0.82
Reach18	2797.98	100 Year	DonPhaseII_Final_Proposed	0.68	243.30	243.57	243.56	243.62	0.014204	1.00	0.79	9.15	0.82
Reach18	2797.98	50 Year	DonPhaseII_Final_Baseline	0.56	243.30	243.56	243.54	243.60	0.013724	0.94	0.65	7.89	0.79
Reach18	2797.98	50 Year	DonPhaseII_Final_Proposed	0.56	243.30	243.56	243.54	243.60	0.013724	0.94	0.65	7.89	0.79
Reach18	2797.98	25 Year	DonPhaseII_Final_Baseline	0.46	243.30	243.54	243.51	243.58	0.013124	0.88	0.54	5.44	0.76
Reach18	2797.98	25 Year	DonPhaseII_Final_Proposed	0.46	243.30	243.54	243.51	243.58	0.013124	0.88	0.54	5.44	0.76
Reach18	2797.98	10 Year	DonPhaseII_Final_Baseline	0.41	243.30	243.53	243.50	243.57	0.012392	0.84	0.49	4.95	0.74
Reach18	2797.98	10 Year	DonPhaseII_Final_Proposed	0.41	243.30	243.53	243.50	243.57	0.012392	0.84	0.49	4.95	0.74
Reach18	2797.98	5 Year	DonPhaseII_Final_Baseline	0.37	243.30	243.52		243.56	0.012137	0.82	0.45	3.74	0.72
Reach18	2797.98	5 Year	DonPhaseII_Final_Proposed	0.37	243.30	243.52		243.56	0.012137	0.82	0.45	3.74	0.72
Reach18	2797.98	2 Year	DonPhaseII_Final_Baseline	0.31	243.30	243.51		243.54	0.011162	0.76	0.41	3.20	0.68
Reach18	2797.98	2 Year	DonPhaseII_Final_Proposed	0.31	243.30	243.51		243.54	0.011162	0.76	0.41	3.20	0.68
Reach18	2759.24	Regional	DonPhaseII_Final_Baseline	41.74	243.12	245.93	243.89	245.93	0.000072	0.48	251.40	247.96	0.09
Reach18	2759.24	Regional	DonPhaseII_Final_Proposed	41.74	243.12	245.93	243.89	245.93	0.000072	0.48	251.40	247.96	0.09
Reach18	2759.24	350 Year	DonPhaseII_Final_Baseline	4.23	243.12	243.53	243.38	243.55	0.005484	1.09	9.56	42.52	0.57
Reach18	2759.24	350 Year	DonPhaseII_Final_Proposed	4.23	243.12	243.53	243.38	243.55	0.005484	1.09	9.56	42.52	0.57
Reach18	2759.24	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	243.12	243.32	243.24	243.33	0.005107	0.61	3.12	25.36	0.48
Reach18	2759.24	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	243.12	243.32	243.24	243.33	0.005107	0.61	3.12	25.36	0.48
Reach18	2759.24	100 Year	DonPhaseII_Final_Baseline	0.68	243.12	243.30	243.23	243.31	0.005108	0.55	2.61	24.25	0.47
Reach18	2759.24	100 Year	DonPhaseII_Final_Proposed	0.68	243.12	243.30	243.23	243.31	0.005108	0.55	2.61	24.25	0.47
Reach18	2759.24	50 Year	DonPhaseII_Final_Baseline	0.56	243.12	243.29	243.22	243.29	0.004996	0.51	2.31	23.77	0.46
Reach18	2759.24	50 Year	DonPhaseII_Final_Proposed	0.56	243.12	243.29	243.22	243.29	0.004996	0.51	2.31	23.77	0.46
Reach18	2759.24	25 Year	DonPhaseII_Final_Baseline	0.46	243.12	243.28	243.22	243.28	0.004931	0.48	2.03	23.25	0.45
Reach18	2759.24	25 Year	DonPhaseII_Final_Proposed	0.46	243.12	243.28	243.22	243.28	0.004931	0.48	2.03	23.25	0.45
Reach18	2759.24	10 Year	DonPhaseII_Final_Baseline	0.41	243.12	243.27	243.21	243.27	0.005043	0.46	1.84	21.82	0.45
Reach18	2759.24	10 Year	DonPhaseII_Final_Proposed	0.41	243.12	243.27	243.21	243.27	0.005043	0.46	1.84	21.82	0.45
Reach18	2759.24	5 Year	DonPhaseII_Final_Baseline	0.37	243.12	243.26	243.21	243.27	0.004953	0.44	1.72	21.41	0.44
Reach18	2759.24	5 Year	DonPhaseII_Final_Proposed	0.37	243.12	243.26	243.21	243.27	0.004953	0.44	1.72	21.41	0.44
Reach18	2759.24	2 Year	DonPhaseII_Final_Baseline	0.31	243.12	243.25	243.20	243.26	0.005009	0.42	1.52	20.68	0.43
Reach18	2759.24	2 Year	DonPhaseII_Final_Proposed	0.31	243.12	243.25	243.20	243.26	0.005009	0.42	1.52	20.68	0.43
Reach18	2724.11	Regional	DonPhaseII_Final_Baseline	41.74	242.93	245.93	243.77	245.93	0.000071	0.49	234.06	425.74	0.09

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2724.11	Regional	DonPhaseII_Final_Proposed	41.74	242.93	245.93	243.77	245.93	0.000071	0.49	234.06	425.74	0.09
Reach18	2724.11	350 Year	DonPhaseII_Final_Baseline	4.23	242.93	243.29	243.19	243.33	0.010258	1.24	6.83	90.40	0.75
Reach18	2724.11	350 Year	DonPhaseII_Final_Proposed	4.23	242.93	243.29	243.19	243.33	0.010258	1.24	6.83	90.40	0.75
Reach18	2724.11	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	242.93	243.11	243.05	243.12	0.009488	0.62	2.36	51.28	0.61
Reach18	2724.11	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	242.93	243.11	243.05	243.12	0.009488	0.62	2.36	51.28	0.61
Reach18	2724.11	100 Year	DonPhaseII_Final_Baseline	0.68	242.93	243.10	243.05	243.10	0.009312	0.55	2.01	50.32	0.59
Reach18	2724.11	100 Year	DonPhaseII_Final_Proposed	0.68	242.93	243.10	243.05	243.10	0.009312	0.55	2.01	50.32	0.59
Reach18	2724.11	50 Year	DonPhaseII_Final_Baseline	0.56	242.93	243.09	243.04	243.09	0.009124	0.51	1.78	49.52	0.57
Reach18	2724.11	50 Year	DonPhaseII_Final_Proposed	0.56	242.93	243.09	243.04	243.09	0.009124	0.51	1.78	49.52	0.57
Reach18	2724.11	25 Year	DonPhaseII_Final_Baseline	0.46	242.93	243.07	243.03	243.08	0.009102	0.48	1.56	48.53	0.56
Reach18	2724.11	25 Year	DonPhaseII_Final_Proposed	0.46	242.93	243.07	243.03	243.08	0.009102	0.48	1.56	48.53	0.56
Reach18	2724.11	10 Year	DonPhaseII_Final_Baseline	0.41	242.93	243.07	243.02	243.07	0.009106	0.46	1.44	47.98	0.56
Reach18	2724.11	10 Year	DonPhaseII_Final_Proposed	0.41	242.93	243.07	243.02	243.07	0.009106	0.46	1.44	47.98	0.56
Reach18	2724.11	5 Year	DonPhaseII_Final_Baseline	0.37	242.93	243.06	243.02	243.07	0.009125	0.44	1.34	47.52	0.55
Reach18	2724.11	5 Year	DonPhaseII_Final_Proposed	0.37	242.93	243.06	243.02	243.07	0.009125	0.44	1.34	47.52	0.55
Reach18	2724.11	2 Year	DonPhaseII_Final_Baseline	0.31	242.93	243.05	243.02	243.06	0.008845	0.41	1.20	46.39	0.53
Reach18	2724.11	2 Year	DonPhaseII_Final_Proposed	0.31	242.93	243.05	243.02	243.06	0.008845	0.41	1.20	46.39	0.53
Reach18	2690.49	Regional	DonPhaseII_Final_Baseline	41.74	242.51	245.92		245.93	0.000081	0.57	188.68	95.52	0.10
Reach18	2690.49	Regional	DonPhaseII_Final_Proposed	41.74	242.51	245.92		245.93	0.000081	0.57	188.68	95.52	0.10
Reach18	2690.49	350 Year	DonPhaseII_Final_Baseline	4.23	242.51	243.14		243.16	0.002722	0.97	10.01	29.95	0.43
Reach18	2690.49	350 Year	DonPhaseII_Final_Proposed	4.23	242.51	243.14		243.16	0.002722	0.97	10.01	29.95	0.43
Reach18	2690.49	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	242.51	242.82		242.84	0.007001	0.85	2.28	22.18	0.59
Reach18	2690.49	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	242.51	242.82		242.84	0.007001	0.85	2.28	22.18	0.59
Reach18	2690.49	100 Year	DonPhaseII_Final_Baseline	0.68	242.51	242.79	242.76	242.82	0.007604	0.81	1.69	19.31	0.60
Reach18	2690.49	100 Year	DonPhaseII_Final_Proposed	0.68	242.51	242.79	242.76	242.82	0.007604	0.81	1.69	19.31	0.60
Reach18	2690.49	50 Year	DonPhaseII_Final_Baseline	0.56	242.51	242.77	242.74	242.80	0.008152	0.78	1.34	16.73	0.61
Reach18	2690.49	50 Year	DonPhaseII_Final_Proposed	0.56	242.51	242.77	242.74	242.80	0.008152	0.78	1.34	16.73	0.61
Reach18	2690.49	25 Year	DonPhaseII_Final_Baseline	0.46	242.51	242.76	242.73	242.78	0.008564	0.75	1.09	13.44	0.61
Reach18	2690.49	25 Year	DonPhaseII_Final_Proposed	0.46	242.51	242.76	242.73	242.78	0.008564	0.75	1.09	13.44	0.61
Reach18	2690.49	10 Year	DonPhaseII_Final_Baseline	0.41	242.51	242.75	242.72	242.77	0.008730	0.73	0.96	12.39	0.62
Reach18	2690.49	10 Year	DonPhaseII_Final_Proposed	0.41	242.51	242.75	242.72	242.77	0.008730	0.73	0.96	12.39	0.62
Reach18	2690.49	5 Year	DonPhaseII_Final_Baseline	0.37	242.51	242.74	242.71	242.76	0.008793	0.72	0.86	11.69	0.61
Reach18	2690.49	5 Year	DonPhaseII_Final_Proposed	0.37	242.51	242.74	242.71	242.76	0.008793	0.72	0.86	11.69	0.61
Reach18	2690.49	2 Year	DonPhaseII_Final_Baseline	0.31	242.51	242.72	242.70	242.74	0.009478	0.71	0.69	10.34	0.63
Reach18	2690.49	2 Year	DonPhaseII_Final_Proposed	0.31	242.51	242.72	242.70	242.74	0.009478	0.71	0.69	10.34	0.63
Reach18	2680.01	Regional	DonPhaseII_Final_Baseline	41.74	242.36	245.81	243.91	245.90	0.000866	1.68	38.56	56.72	0.29
Reach18	2680.01	Regional	DonPhaseII_Final_Proposed	41.74	242.36	245.81	243.91	245.90	0.000866	1.68	38.56	56.72	0.29
Reach18	2680.01	350 Year	DonPhaseII_Final_Baseline	4.23	242.36	242.92	242.92	243.07	0.016544	1.92	3.23	11.99	0.92
Reach18	2680.01	350 Year	DonPhaseII_Final_Proposed	4.23	242.36	242.92	242.92	243.07	0.016544	1.92	3.23	11.99	0.92
Reach18	2680.01	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	242.36	242.64	242.64	242.71	0.022424	1.26	0.83	6.08	0.95
Reach18	2680.01	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	242.36	242.64	242.64	242.71	0.022424	1.26	0.83	6.08	0.95
Reach18	2680.01	100 Year	DonPhaseII_Final_Baseline	0.68	242.36	242.61	242.61	242.68	0.022809	1.18	0.67	5.66	0.95
Reach18	2680.01	100 Year	DonPhaseII_Final_Proposed	0.68	242.36	242.61	242.61	242.68	0.022809	1.18	0.67	5.66	0.95
Reach18	2680.01	50 Year	DonPhaseII_Final_Baseline	0.56	242.36	242.59	242.59	242.65	0.022964	1.12	0.56	5.38	0.94
Reach18	2680.01	50 Year	DonPhaseII_Final_Proposed	0.56	242.36	242.59	242.59	242.65	0.022964	1.12	0.56	5.38	0.94
Reach18	2680.01	25 Year	DonPhaseII_Final_Baseline	0.46	242.36	242.57	242.57	242.63	0.023860	1.07	0.46	4.81	0.96
Reach18	2680.01	25 Year	DonPhaseII_Final_Proposed	0.46	242.36	242.57	242.57	242.63	0.023860	1.07	0.46	4.81	0.96

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2680.01	10 Year	DonPhaseII_Final_Baseline	0.41	242.36	242.56	242.56	242.62	0.024243	1.04	0.42	4.51	0.97
Reach18	2680.01	10 Year	DonPhaseII_Final_Proposed	0.41	242.36	242.56	242.56	242.62	0.024243	1.04	0.42	4.51	0.97
Reach18	2680.01	5 Year	DonPhaseII_Final_Baseline	0.37	242.36	242.55	242.55	242.60	0.025139	1.03	0.37	4.23	0.99
Reach18	2680.01	5 Year	DonPhaseII_Final_Proposed	0.37	242.36	242.55	242.55	242.60	0.025139	1.03	0.37	4.23	0.99
Reach18	2680.01	2 Year	DonPhaseII_Final_Baseline	0.31	242.36	242.54	242.54	242.59	0.024849	0.97	0.32	3.77	0.98
Reach18	2680.01	2 Year	DonPhaseII_Final_Proposed	0.31	242.36	242.54	242.54	242.59	0.024849	0.97	0.32	3.77	0.98
Reach18	2647.15			Culvert									
Reach18	2613.2	Regional	DonPhaseII_Final_Baseline	41.74	242.20	243.40	243.40	243.97	0.013476	3.54	13.81	68.51	1.07
Reach18	2613.2	Regional	DonPhaseII_Final_Proposed	41.74	242.20	243.40	243.40	243.97	0.013476	3.54	13.81	68.51	1.07
Reach18	2613.2	350 Year	DonPhaseII_Final_Baseline	4.23	242.20	242.51	242.51	242.64	0.025042	1.70	2.94	42.85	1.13
Reach18	2613.2	350 Year	DonPhaseII_Final_Proposed	4.23	242.20	242.51	242.51	242.64	0.025042	1.70	2.94	42.85	1.13
Reach18	2613.2	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	242.20	242.34	242.34	242.39	0.046647	1.06	0.98	32.17	1.27
Reach18	2613.2	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	242.20	242.34	242.34	242.39	0.046647	1.06	0.98	32.17	1.27
Reach18	2613.2	100 Year	DonPhaseII_Final_Baseline	0.68	242.20	242.33	242.33	242.37	0.055406	0.98	0.80	31.08	1.33
Reach18	2613.2	100 Year	DonPhaseII_Final_Proposed	0.68	242.20	242.33	242.33	242.37	0.055406	0.98	0.80	31.08	1.33
Reach18	2613.2	50 Year	DonPhaseII_Final_Baseline	0.56	242.20	242.32	242.32	242.35	0.053962	0.89	0.72	30.56	1.28
Reach18	2613.2	50 Year	DonPhaseII_Final_Proposed	0.56	242.20	242.32	242.32	242.35	0.053962	0.89	0.72	30.56	1.28
Reach18	2613.2	25 Year	DonPhaseII_Final_Baseline	0.46	242.20	242.31	242.31	242.34	0.054938	0.83	0.63	29.86	1.27
Reach18	2613.2	25 Year	DonPhaseII_Final_Proposed	0.46	242.20	242.31	242.31	242.34	0.054938	0.83	0.63	29.86	1.27
Reach18	2613.2	10 Year	DonPhaseII_Final_Baseline	0.41	242.20	242.31	242.31	242.33	0.047457	0.78	0.61	29.28	1.18
Reach18	2613.2	10 Year	DonPhaseII_Final_Proposed	0.41	242.20	242.31	242.31	242.33	0.047457	0.78	0.61	29.28	1.18
Reach18	2613.2	5 Year	DonPhaseII_Final_Baseline	0.37	242.20	242.29	242.29	242.33	0.061575	0.95	0.48	26.40	1.37
Reach18	2613.2	5 Year	DonPhaseII_Final_Proposed	0.37	242.20	242.29	242.29	242.33	0.061575	0.95	0.48	26.40	1.37
Reach18	2613.2	2 Year	DonPhaseII_Final_Baseline	0.31	242.20	242.28	242.28	242.32	0.068528	0.93	0.40	25.22	1.42
Reach18	2613.2	2 Year	DonPhaseII_Final_Proposed	0.31	242.20	242.28	242.28	242.32	0.068528	0.93	0.40	25.22	1.42
Reach18	2605.63	Regional	DonPhaseII_Final_Baseline	48.10	242.15	243.16	242.54	243.20	0.003093	1.55	66.62	71.29	0.50
Reach18	2605.63	Regional	DonPhaseII_Final_Proposed	48.10	242.15	243.16	242.54	243.20	0.003093	1.55	66.62	71.29	0.50
Reach18	2605.63	350 Year	DonPhaseII_Final_Baseline	4.97	242.15	242.28	242.13	242.30	0.010337	0.59	10.55	52.58	0.62
Reach18	2605.63	350 Year	DonPhaseII_Final_Proposed	4.97	242.15	242.28	242.13	242.30	0.010337	0.59	10.55	52.58	0.62
Reach18	2605.63	1.3*100 Year	DonPhaseII_Final_Baseline	0.99	242.15	242.01	241.92	242.03	0.020580		1.87	11.70	0.00
Reach18	2605.63	1.3*100 Year	DonPhaseII_Final_Proposed	0.99	242.15	242.01	241.92	242.03	0.020580		1.87	11.70	0.00
Reach18	2605.63	100 Year	DonPhaseII_Final_Baseline	0.76	242.15	241.98	241.90	241.99	0.021054		1.48	9.80	0.00
Reach18	2605.63	100 Year	DonPhaseII_Final_Proposed	0.76	242.15	241.98	241.90	241.99	0.021054		1.48	9.80	0.00
Reach18	2605.63	50 Year	DonPhaseII_Final_Baseline	0.58	242.15	241.95	241.88	241.96	0.021360		1.21	8.95	0.00
Reach18	2605.63	50 Year	DonPhaseII_Final_Proposed	0.58	242.15	241.95	241.88	241.96	0.021360		1.21	8.95	0.00
Reach18	2605.63	25 Year	DonPhaseII_Final_Baseline	0.49	242.15	241.93	241.87	241.95	0.021942		1.07	8.74	0.00
Reach18	2605.63	25 Year	DonPhaseII_Final_Proposed	0.49	242.15	241.93	241.87	241.95	0.021942		1.07	8.74	0.00
Reach18	2605.63	10 Year	DonPhaseII_Final_Baseline	0.42	242.15	241.92	241.87	241.93	0.021995		0.97	8.58	0.00
Reach18	2605.63	10 Year	DonPhaseII_Final_Proposed	0.42	242.15	241.92	241.87	241.93	0.021995		0.97	8.58	0.00
Reach18	2605.63	5 Year	DonPhaseII_Final_Baseline	0.37	242.15	241.91	241.86	241.92	0.022115		0.89	8.42	0.00
Reach18	2605.63	5 Year	DonPhaseII_Final_Proposed	0.37	242.15	241.91	241.86	241.92	0.022115		0.89	8.42	0.00
Reach18	2605.63	2 Year	DonPhaseII_Final_Baseline	0.29	242.15	241.90	241.85	241.91	0.021406		0.77	8.13	0.00
Reach18	2605.63	2 Year	DonPhaseII_Final_Proposed	0.29	242.15	241.90	241.85	241.91	0.021406		0.77	8.13	0.00
Reach18	2506.69	Regional	DonPhaseII_Final_Baseline	48.10	240.38	242.29	242.29	242.71	0.010075	4.08	27.93	29.79	0.99
Reach18	2506.69	Regional	DonPhaseII_Final_Proposed	48.10	240.38	242.29	242.29	242.71	0.010075	4.08	27.93	29.79	0.99

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2506.69	350 Year	DonPhaseII_Final_Baseline	4.97	240.38	241.19	241.19	241.37	0.010149	2.11	3.85	11.63	0.84
Reach18	2506.69	350 Year	DonPhaseII_Final_Proposed	4.97	240.38	241.19	241.19	241.37	0.010149	2.11	3.85	11.63	0.84
Reach18	2506.69	1.3*100 Year	DonPhaseII_Final_Baseline	0.99	240.38	240.83	240.77	240.90	0.008528	1.13	0.93	4.24	0.67
Reach18	2506.69	1.3*100 Year	DonPhaseII_Final_Proposed	0.99	240.38	240.83	240.77	240.90	0.008528	1.13	0.93	4.24	0.67
Reach18	2506.69	100 Year	DonPhaseII_Final_Baseline	0.76	240.38	240.79	240.73	240.84	0.008662	1.02	0.77	3.70	0.66
Reach18	2506.69	100 Year	DonPhaseII_Final_Proposed	0.76	240.38	240.79	240.73	240.84	0.008662	1.02	0.77	3.70	0.66
Reach18	2506.69	50 Year	DonPhaseII_Final_Baseline	0.58	240.38	240.75	240.69	240.80	0.008750	0.92	0.64	3.35	0.65
Reach18	2506.69	50 Year	DonPhaseII_Final_Proposed	0.58	240.38	240.75	240.69	240.80	0.008750	0.92	0.64	3.35	0.65
Reach18	2506.69	25 Year	DonPhaseII_Final_Baseline	0.49	240.38	240.73	240.67	240.77	0.008755	0.87	0.57	3.16	0.64
Reach18	2506.69	25 Year	DonPhaseII_Final_Proposed	0.49	240.38	240.73	240.67	240.77	0.008755	0.87	0.57	3.16	0.64
Reach18	2506.69	10 Year	DonPhaseII_Final_Baseline	0.42	240.38	240.71	240.66	240.75	0.008869	0.83	0.51	2.97	0.63
Reach18	2506.69	10 Year	DonPhaseII_Final_Proposed	0.42	240.38	240.71	240.66	240.75	0.008869	0.83	0.51	2.97	0.63
Reach18	2506.69	5 Year	DonPhaseII_Final_Baseline	0.37	240.38	240.70	240.64	240.73	0.008930	0.80	0.46	2.84	0.63
Reach18	2506.69	5 Year	DonPhaseII_Final_Proposed	0.37	240.38	240.70	240.64	240.73	0.008930	0.80	0.46	2.84	0.63
Reach18	2506.69	2 Year	DonPhaseII_Final_Baseline	0.29	240.38	240.67	240.62	240.70	0.009332	0.76	0.38	2.57	0.63
Reach18	2506.69	2 Year	DonPhaseII_Final_Proposed	0.29	240.38	240.67	240.62	240.70	0.009332	0.76	0.38	2.57	0.63
Reach18	2460	Regional	DonPhaseII_Final_Baseline	48.10	239.80	241.74	241.49	241.94	0.005850	3.09	38.67	37.98	0.75
Reach18	2460	Regional	DonPhaseII_Final_Proposed	48.10	239.80	241.74	241.49	241.94	0.005850	3.09	38.67	37.98	0.75
Reach18	2460	350 Year	DonPhaseII_Final_Baseline	4.97	239.80	240.58	240.58	240.72	0.010424	1.98	4.76	17.31	0.83
Reach18	2460	350 Year	DonPhaseII_Final_Proposed	4.97	239.80	240.58	240.58	240.72	0.010424	1.98	4.76	17.31	0.83
Reach18	2460	1.3*100 Year	DonPhaseII_Final_Baseline	0.99	239.80	240.22	240.22	240.32	0.019021	1.45	0.71	3.79	0.96
Reach18	2460	1.3*100 Year	DonPhaseII_Final_Proposed	0.99	239.80	240.22	240.22	240.32	0.019021	1.45	0.71	3.79	0.96
Reach18	2460	100 Year	DonPhaseII_Final_Baseline	0.76	239.80	240.18	240.17	240.27	0.018543	1.33	0.58	3.14	0.93
Reach18	2460	100 Year	DonPhaseII_Final_Proposed	0.76	239.80	240.18	240.17	240.27	0.018543	1.33	0.58	3.14	0.93
Reach18	2460	50 Year	DonPhaseII_Final_Baseline	0.58	239.80	240.14	240.13	240.22	0.018571	1.22	0.48	2.81	0.91
Reach18	2460	50 Year	DonPhaseII_Final_Proposed	0.58	239.80	240.14	240.13	240.22	0.018571	1.22	0.48	2.81	0.91
Reach18	2460	25 Year	DonPhaseII_Final_Baseline	0.49	239.80	240.13	240.11	240.19	0.018575	1.15	0.43	2.64	0.90
Reach18	2460	25 Year	DonPhaseII_Final_Proposed	0.49	239.80	240.13	240.11	240.19	0.018575	1.15	0.43	2.64	0.90
Reach18	2460	10 Year	DonPhaseII_Final_Baseline	0.42	239.80	240.11	240.09	240.17	0.018103	1.08	0.39	2.50	0.88
Reach18	2460	10 Year	DonPhaseII_Final_Proposed	0.42	239.80	240.11	240.09	240.17	0.018103	1.08	0.39	2.50	0.88
Reach18	2460	5 Year	DonPhaseII_Final_Baseline	0.37	239.80	240.10	240.08	240.15	0.017861	1.05	0.35	2.37	0.87
Reach18	2460	5 Year	DonPhaseII_Final_Proposed	0.37	239.80	240.10	240.08	240.15	0.017861	1.05	0.35	2.37	0.87
Reach18	2460	2 Year	DonPhaseII_Final_Baseline	0.29	239.80	240.07	240.05	240.12	0.016993	0.97	0.30	2.15	0.84
Reach18	2460	2 Year	DonPhaseII_Final_Proposed	0.29	239.80	240.07	240.05	240.12	0.016993	0.97	0.30	2.15	0.84
Reach18	2413.25	Regional	DonPhaseII_Final_Baseline	48.10	239.14	241.05	241.05	241.55	0.011918	4.36	27.09	32.19	1.05
Reach18	2413.25	Regional	DonPhaseII_Final_Proposed	48.10	239.14	241.05	241.05	241.55	0.011918	4.36	27.09	32.19	1.05
Reach18	2413.25	350 Year	DonPhaseII_Final_Baseline	4.97	239.14	240.03	240.01	240.22	0.007898	2.00	3.85	14.40	0.74
Reach18	2413.25	350 Year	DonPhaseII_Final_Proposed	4.97	239.14	240.03	240.01	240.22	0.007898	2.00	3.85	14.40	0.74
Reach18	2413.25	1.3*100 Year	DonPhaseII_Final_Baseline	0.99	239.14	239.55		239.63	0.011801	1.26	0.78	2.86	0.77
Reach18	2413.25	1.3*100 Year	DonPhaseII_Final_Proposed	0.99	239.14	239.55		239.63	0.011801	1.26	0.78	2.86	0.77
Reach18	2413.25	100 Year	DonPhaseII_Final_Baseline	0.76	239.14	239.50		239.57	0.012197	1.18	0.64	2.64	0.77
Reach18	2413.25	100 Year	DonPhaseII_Final_Proposed	0.76	239.14	239.50		239.57	0.012197	1.18	0.64	2.64	0.77
Reach18	2413.25	50 Year	DonPhaseII_Final_Baseline	0.58	239.14	239.45		239.51	0.012463	1.11	0.52	2.43	0.76
Reach18	2413.25	50 Year	DonPhaseII_Final_Proposed	0.58	239.14	239.45		239.51	0.012463	1.11	0.52	2.43	0.76
Reach18	2413.25	25 Year	DonPhaseII_Final_Baseline	0.49	239.14	239.42		239.48	0.012696	1.06	0.46	2.30	0.76
Reach18	2413.25	25 Year	DonPhaseII_Final_Proposed	0.49	239.14	239.42		239.48	0.012696	1.06	0.46	2.30	0.76
Reach18	2413.25	10 Year	DonPhaseII_Final_Baseline	0.42	239.14	239.40		239.45	0.013083	1.03	0.41	2.19	0.76

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2413.25	10 Year	DonPhaseII_Final_Proposed	0.42	239.14	239.40		239.45	0.013083	1.03	0.41	2.19	0.76
Reach18	2413.25	5 Year	DonPhaseII_Final_Baseline	0.37	239.14	239.38		239.43	0.013304	1.00	0.37	2.11	0.76
Reach18	2413.25	5 Year	DonPhaseII_Final_Proposed	0.37	239.14	239.38		239.43	0.013304	1.00	0.37	2.11	0.76
Reach18	2413.25	2 Year	DonPhaseII_Final_Baseline	0.29	239.14	239.35		239.40	0.014087	0.95	0.30	1.96	0.77
Reach18	2413.25	2 Year	DonPhaseII_Final_Proposed	0.29	239.14	239.35		239.40	0.014087	0.95	0.30	1.96	0.77
Reach18	2369	Regional	DonPhaseII_Final_Baseline	48.10	238.71	240.50	240.50	240.82	0.009706	3.72	34.73	46.59	0.94
Reach18	2369	Regional	DonPhaseII_Final_Proposed	48.10	238.71	240.50	240.50	240.82	0.009706	3.72	34.73	46.59	0.94
Reach18	2369	350 Year	DonPhaseII_Final_Baseline	4.97	238.71	239.53	239.51	239.78	0.012475	2.26	2.48	6.91	0.91
Reach18	2369	350 Year	DonPhaseII_Final_Proposed	4.97	238.71	239.53	239.51	239.78	0.012475	2.26	2.48	6.91	0.91
Reach18	2369	1.3*100 Year	DonPhaseII_Final_Baseline	0.99	238.71	239.17	239.07	239.22	0.007207	1.05	0.94	3.31	0.61
Reach18	2369	1.3*100 Year	DonPhaseII_Final_Proposed	0.99	238.71	239.17	239.07	239.22	0.007207	1.05	0.94	3.31	0.61
Reach18	2369	100 Year	DonPhaseII_Final_Baseline	0.76	238.71	239.13	239.03	239.17	0.006814	0.94	0.81	3.13	0.59
Reach18	2369	100 Year	DonPhaseII_Final_Proposed	0.76	238.71	239.13	239.03	239.17	0.006814	0.94	0.81	3.13	0.59
Reach18	2369	50 Year	DonPhaseII_Final_Baseline	0.58	238.71	239.08	238.99	239.12	0.006455	0.85	0.68	2.92	0.56
Reach18	2369	50 Year	DonPhaseII_Final_Proposed	0.58	238.71	239.08	238.99	239.12	0.006455	0.85	0.68	2.92	0.56
Reach18	2369	25 Year	DonPhaseII_Final_Baseline	0.49	238.71	239.06	238.97	239.09	0.006374	0.81	0.61	2.79	0.55
Reach18	2369	25 Year	DonPhaseII_Final_Proposed	0.49	238.71	239.06	238.97	239.09	0.006374	0.81	0.61	2.79	0.55
Reach18	2369	10 Year	DonPhaseII_Final_Baseline	0.42	238.71	239.04	238.95	239.07	0.006169	0.76	0.55	2.69	0.54
Reach18	2369	10 Year	DonPhaseII_Final_Proposed	0.42	238.71	239.04	238.95	239.07	0.006169	0.76	0.55	2.69	0.54
Reach18	2369	5 Year	DonPhaseII_Final_Baseline	0.37	238.71	239.02	238.94	239.05	0.006072	0.73	0.51	2.60	0.53
Reach18	2369	5 Year	DonPhaseII_Final_Proposed	0.37	238.71	239.02	238.94	239.05	0.006072	0.73	0.51	2.60	0.53
Reach18	2369	2 Year	DonPhaseII_Final_Baseline	0.29	238.71	238.99	238.91	239.01	0.005766	0.67	0.43	2.45	0.51
Reach18	2369	2 Year	DonPhaseII_Final_Proposed	0.29	238.71	238.99	238.91	239.01	0.005766	0.67	0.43	2.45	0.51
Reach18	2322.1	Regional	DonPhaseII_Final_Baseline	49.03	238.25	239.94	239.94	240.28	0.010289	3.69	31.65	42.84	0.97
Reach18	2322.1	Regional	DonPhaseII_Final_Proposed	49.03	238.25	239.94	239.94	240.28	0.010289	3.69	31.65	42.84	0.97
Reach18	2322.1	350 Year	DonPhaseII_Final_Baseline	5.23	238.25	238.92	238.92	239.09	0.015948	2.11	3.81	11.30	0.99
Reach18	2322.1	350 Year	DonPhaseII_Final_Proposed	5.23	238.25	238.92	238.92	239.09	0.015948	2.11	3.81	11.30	0.99
Reach18	2322.1	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	238.25	238.59	238.59	238.69	0.019077	1.47	0.73	4.35	0.97
Reach18	2322.1	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	238.25	238.59	238.59	238.69	0.019077	1.47	0.73	4.35	0.97
Reach18	2322.1	100 Year	DonPhaseII_Final_Baseline	0.77	238.25	238.54	238.54	238.64	0.020805	1.38	0.57	3.45	0.99
Reach18	2322.1	100 Year	DonPhaseII_Final_Proposed	0.77	238.25	238.54	238.54	238.64	0.020805	1.38	0.57	3.45	0.99
Reach18	2322.1	50 Year	DonPhaseII_Final_Baseline	0.59	238.25	238.51	238.51	238.59	0.022735	1.30	0.46	2.89	1.01
Reach18	2322.1	50 Year	DonPhaseII_Final_Proposed	0.59	238.25	238.51	238.51	238.59	0.022735	1.30	0.46	2.89	1.01
Reach18	2322.1	25 Year	DonPhaseII_Final_Baseline	0.49	238.25	238.49	238.49	238.56	0.023619	1.23	0.40	2.60	1.01
Reach18	2322.1	25 Year	DonPhaseII_Final_Proposed	0.49	238.25	238.49	238.49	238.56	0.023619	1.23	0.40	2.60	1.01
Reach18	2322.1	10 Year	DonPhaseII_Final_Baseline	0.43	238.25	238.47	238.47	238.54	0.024133	1.20	0.36	2.49	1.01
Reach18	2322.1	10 Year	DonPhaseII_Final_Proposed	0.43	238.25	238.47	238.47	238.54	0.024133	1.20	0.36	2.49	1.01
Reach18	2322.1	5 Year	DonPhaseII_Final_Baseline	0.38	238.25	238.46	238.46	238.53	0.024564	1.17	0.33	2.39	1.01
Reach18	2322.1	5 Year	DonPhaseII_Final_Proposed	0.38	238.25	238.46	238.46	238.53	0.024564	1.17	0.33	2.39	1.01
Reach18	2322.1	2 Year	DonPhaseII_Final_Baseline	0.31	238.25	238.44	238.44	238.50	0.025094	1.11	0.28	2.24	1.01
Reach18	2322.1	2 Year	DonPhaseII_Final_Proposed	0.31	238.25	238.44	238.44	238.50	0.025094	1.11	0.28	2.24	1.01
Reach18	2284	Regional	DonPhaseII_Final_Baseline	49.03	237.55	239.33		239.56	0.006537	3.07	39.82	47.05	0.78
Reach18	2284	Regional	DonPhaseII_Final_Proposed	49.03	237.55	239.33		239.56	0.006537	3.07	39.82	47.05	0.78
Reach18	2284	350 Year	DonPhaseII_Final_Baseline	5.23	237.55	238.34	238.29	238.46	0.007979	1.72	4.90	16.45	0.73
Reach18	2284	350 Year	DonPhaseII_Final_Proposed	5.23	237.55	238.34	238.29	238.46	0.007979	1.72	4.90	16.45	0.73
Reach18	2284	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	237.55	237.99		238.04	0.006100	0.94	1.22	5.74	0.57

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2284	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	237.55	237.99		238.04	0.006100	0.94	1.22	5.74	0.57
Reach18	2284	100 Year	DonPhaseII_Final_Baseline	0.77	237.55	237.95		237.99	0.005837	0.86	1.00	5.18	0.55
Reach18	2284	100 Year	DonPhaseII_Final_Proposed	0.77	237.55	237.95		237.99	0.005837	0.86	1.00	5.18	0.55
Reach18	2284	50 Year	DonPhaseII_Final_Baseline	0.59	237.55	237.91		237.94	0.005586	0.78	0.81	4.64	0.53
Reach18	2284	50 Year	DonPhaseII_Final_Proposed	0.59	237.55	237.91		237.94	0.005586	0.78	0.81	4.64	0.53
Reach18	2284	25 Year	DonPhaseII_Final_Baseline	0.49	237.55	237.89		237.92	0.005491	0.73	0.70	4.17	0.51
Reach18	2284	25 Year	DonPhaseII_Final_Proposed	0.49	237.55	237.89		237.92	0.005491	0.73	0.70	4.17	0.51
Reach18	2284	10 Year	DonPhaseII_Final_Baseline	0.43	237.55	237.87		237.90	0.005344	0.70	0.64	3.88	0.50
Reach18	2284	10 Year	DonPhaseII_Final_Proposed	0.43	237.55	237.87		237.90	0.005344	0.70	0.64	3.88	0.50
Reach18	2284	5 Year	DonPhaseII_Final_Baseline	0.38	237.55	237.86		237.88	0.005277	0.67	0.59	3.60	0.49
Reach18	2284	5 Year	DonPhaseII_Final_Proposed	0.38	237.55	237.86		237.88	0.005277	0.67	0.59	3.60	0.49
Reach18	2284	2 Year	DonPhaseII_Final_Baseline	0.31	237.55	237.84		237.86	0.005156	0.62	0.51	3.29	0.48
Reach18	2284	2 Year	DonPhaseII_Final_Proposed	0.31	237.55	237.84		237.86	0.005156	0.62	0.51	3.29	0.48
Reach18	2233.93	Regional	DonPhaseII_Final_Baseline	49.03	237.10	238.90	238.90	239.27	0.007255	3.30	32.88	47.64	0.83
Reach18	2233.93	Regional	DonPhaseII_Final_Proposed	49.03	237.10	238.90	238.90	239.27	0.007255	3.30	32.88	47.64	0.83
Reach18	2233.93	350 Year	DonPhaseII_Final_Baseline	5.23	237.10	237.73	237.73	237.94	0.015644	2.02	2.76	7.83	0.98
Reach18	2233.93	350 Year	DonPhaseII_Final_Proposed	5.23	237.10	237.73	237.73	237.94	0.015644	2.02	2.76	7.83	0.98
Reach18	2233.93	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	237.10	237.43	237.43	237.51	0.022878	1.28	0.78	4.78	1.01
Reach18	2233.93	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	237.10	237.43	237.43	237.51	0.022878	1.28	0.78	4.78	1.01
Reach18	2233.93	100 Year	DonPhaseII_Final_Baseline	0.77	237.10	237.39	237.39	237.47	0.023729	1.22	0.63	4.29	1.01
Reach18	2233.93	100 Year	DonPhaseII_Final_Proposed	0.77	237.10	237.39	237.39	237.47	0.023729	1.22	0.63	4.29	1.01
Reach18	2233.93	50 Year	DonPhaseII_Final_Baseline	0.59	237.10	237.36	237.36	237.43	0.024527	1.16	0.51	3.85	1.01
Reach18	2233.93	50 Year	DonPhaseII_Final_Proposed	0.59	237.10	237.36	237.36	237.43	0.024527	1.16	0.51	3.85	1.01
Reach18	2233.93	25 Year	DonPhaseII_Final_Baseline	0.49	237.10	237.35	237.35	237.41	0.024933	1.11	0.44	3.58	1.01
Reach18	2233.93	25 Year	DonPhaseII_Final_Proposed	0.49	237.10	237.35	237.35	237.41	0.024933	1.11	0.44	3.58	1.01
Reach18	2233.93	10 Year	DonPhaseII_Final_Baseline	0.43	237.10	237.33	237.33	237.39	0.025597	1.09	0.40	3.40	1.01
Reach18	2233.93	10 Year	DonPhaseII_Final_Proposed	0.43	237.10	237.33	237.33	237.39	0.025597	1.09	0.40	3.40	1.01
Reach18	2233.93	5 Year	DonPhaseII_Final_Baseline	0.38	237.10	237.32	237.32	237.38	0.025949	1.06	0.36	3.23	1.01
Reach18	2233.93	5 Year	DonPhaseII_Final_Proposed	0.38	237.10	237.32	237.32	237.38	0.025949	1.06	0.36	3.23	1.01
Reach18	2233.93	2 Year	DonPhaseII_Final_Baseline	0.31	237.10	237.30	237.30	237.36	0.026657	1.02	0.31	2.98	1.01
Reach18	2233.93	2 Year	DonPhaseII_Final_Proposed	0.31	237.10	237.30	237.30	237.36	0.026657	1.02	0.31	2.98	1.01
Reach18	2200	Regional	DonPhaseII_Final_Baseline	49.03	236.37	238.55		238.69	0.002660	2.20	48.72	45.67	0.51
Reach18	2200	Regional	DonPhaseII_Final_Proposed	49.03	236.37	238.55		238.69	0.002660	2.20	48.72	45.67	0.51
Reach18	2200	350 Year	DonPhaseII_Final_Baseline	5.23	236.37	237.18	237.10	237.28	0.006888	1.48	4.84	18.48	0.66
Reach18	2200	350 Year	DonPhaseII_Final_Proposed	5.23	236.37	237.18	237.10	237.28	0.006888	1.48	4.84	18.48	0.66
Reach18	2200	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	236.37	236.78		236.84	0.008717	1.07	0.93	3.53	0.67
Reach18	2200	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	236.37	236.78		236.84	0.008717	1.07	0.93	3.53	0.67
Reach18	2200	100 Year	DonPhaseII_Final_Baseline	0.77	236.37	236.73		236.78	0.008482	0.99	0.78	3.24	0.65
Reach18	2200	100 Year	DonPhaseII_Final_Proposed	0.77	236.37	236.73		236.78	0.008482	0.99	0.78	3.24	0.65
Reach18	2200	50 Year	DonPhaseII_Final_Baseline	0.59	236.37	236.70		236.74	0.007950	0.90	0.66	3.02	0.62
Reach18	2200	50 Year	DonPhaseII_Final_Proposed	0.59	236.37	236.70		236.74	0.007950	0.90	0.66	3.02	0.62
Reach18	2200	25 Year	DonPhaseII_Final_Baseline	0.49	236.37	236.67		236.71	0.007530	0.84	0.58	2.89	0.59
Reach18	2200	25 Year	DonPhaseII_Final_Proposed	0.49	236.37	236.67		236.71	0.007530	0.84	0.58	2.89	0.59
Reach18	2200	10 Year	DonPhaseII_Final_Baseline	0.43	236.37	236.66		236.69	0.007300	0.80	0.54	2.80	0.58
Reach18	2200	10 Year	DonPhaseII_Final_Proposed	0.43	236.37	236.66		236.69	0.007300	0.80	0.54	2.80	0.58
Reach18	2200	5 Year	DonPhaseII_Final_Baseline	0.38	236.37	236.64		236.67	0.007100	0.76	0.50	2.72	0.57
Reach18	2200	5 Year	DonPhaseII_Final_Proposed	0.38	236.37	236.64		236.67	0.007100	0.76	0.50	2.72	0.57

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2200	2 Year	DonPhaseII_Final_Baseline	0.31	236.37	236.62		236.64	0.006743	0.71	0.44	2.59	0.55
Reach18	2200	2 Year	DonPhaseII_Final_Proposed	0.31	236.37	236.62		236.64	0.006743	0.71	0.44	2.59	0.55
Reach18	2158.21	Regional	DonPhaseII_Final_Baseline	49.03	236.14	237.67	237.67	238.42	0.022639	5.41	20.32	22.15	1.45
Reach18	2158.21	Regional	DonPhaseII_Final_Proposed	49.03	236.14	237.67	237.67	238.42	0.022639	5.41	20.32	22.15	1.45
Reach18	2158.21	350 Year	DonPhaseII_Final_Baseline	5.23	236.14	236.81	236.77	236.95	0.010660	2.01	4.91	13.95	0.85
Reach18	2158.21	350 Year	DonPhaseII_Final_Proposed	5.23	236.14	236.81	236.77	236.95	0.010660	2.01	4.91	13.95	0.85
Reach18	2158.21	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	236.14	236.54	236.45	236.57	0.005027	0.89	1.77	8.90	0.52
Reach18	2158.21	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	236.14	236.54	236.45	236.57	0.005027	0.89	1.77	8.90	0.52
Reach18	2158.21	100 Year	DonPhaseII_Final_Baseline	0.77	236.14	236.51	236.42	236.53	0.004598	0.79	1.50	8.35	0.49
Reach18	2158.21	100 Year	DonPhaseII_Final_Proposed	0.77	236.14	236.51	236.42	236.53	0.004598	0.79	1.50	8.35	0.49
Reach18	2158.21	50 Year	DonPhaseII_Final_Baseline	0.59	236.14	236.47	236.39	236.49	0.004448	0.71	1.24	7.80	0.47
Reach18	2158.21	50 Year	DonPhaseII_Final_Proposed	0.59	236.14	236.47	236.39	236.49	0.004448	0.71	1.24	7.80	0.47
Reach18	2158.21	25 Year	DonPhaseII_Final_Baseline	0.49	236.14	236.45	236.38	236.47	0.004469	0.67	1.07	7.43	0.47
Reach18	2158.21	25 Year	DonPhaseII_Final_Proposed	0.49	236.14	236.45	236.38	236.47	0.004469	0.67	1.07	7.43	0.47
Reach18	2158.21	10 Year	DonPhaseII_Final_Baseline	0.43	236.14	236.44	236.37	236.46	0.004428	0.64	0.97	7.20	0.46
Reach18	2158.21	10 Year	DonPhaseII_Final_Proposed	0.43	236.14	236.44	236.37	236.46	0.004428	0.64	0.97	7.20	0.46
Reach18	2158.21	5 Year	DonPhaseII_Final_Baseline	0.38	236.14	236.43	236.36	236.44	0.004390	0.61	0.89	6.96	0.45
Reach18	2158.21	5 Year	DonPhaseII_Final_Proposed	0.38	236.14	236.43	236.36	236.44	0.004390	0.61	0.89	6.96	0.45
Reach18	2158.21	2 Year	DonPhaseII_Final_Baseline	0.31	236.14	236.41	236.34	236.42	0.004426	0.57	0.76	6.48	0.45
Reach18	2158.21	2 Year	DonPhaseII_Final_Proposed	0.31	236.14	236.41	236.34	236.42	0.004426	0.57	0.76	6.48	0.45
Reach18	2112.23	Regional	DonPhaseII_Final_Baseline	49.03	235.80	236.95	236.95	237.30	0.021063	4.30	26.92	35.25	1.33
Reach18	2112.23	Regional	DonPhaseII_Final_Proposed	49.03	235.80	236.95	236.95	237.30	0.021063	4.30	26.92	35.25	1.33
Reach18	2112.23	350 Year	DonPhaseII_Final_Baseline	5.23	235.80	236.36	236.36	236.46	0.011211	1.84	7.18	31.82	0.85
Reach18	2112.23	350 Year	DonPhaseII_Final_Proposed	5.23	235.80	236.36	236.36	236.46	0.011211	1.84	7.18	31.82	0.85
Reach18	2112.23	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	235.80	236.11	236.11	236.19	0.015873	1.33	1.01	9.52	0.89
Reach18	2112.23	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	235.80	236.11	236.11	236.19	0.015873	1.33	1.01	9.52	0.89
Reach18	2112.23	100 Year	DonPhaseII_Final_Baseline	0.77	235.80	236.07	236.07	236.15	0.019153	1.33	0.69	5.71	0.96
Reach18	2112.23	100 Year	DonPhaseII_Final_Proposed	0.77	235.80	236.07	236.07	236.15	0.019153	1.33	0.69	5.71	0.96
Reach18	2112.23	50 Year	DonPhaseII_Final_Baseline	0.59	235.80	236.03	236.03	236.11	0.021705	1.27	0.52	3.57	0.99
Reach18	2112.23	50 Year	DonPhaseII_Final_Proposed	0.59	235.80	236.03	236.03	236.11	0.021705	1.27	0.52	3.57	0.99
Reach18	2112.23	25 Year	DonPhaseII_Final_Baseline	0.49	235.80	236.01	236.01	236.08	0.022066	1.21	0.45	3.38	0.99
Reach18	2112.23	25 Year	DonPhaseII_Final_Proposed	0.49	235.80	236.01	236.01	236.08	0.022066	1.21	0.45	3.38	0.99
Reach18	2112.23	10 Year	DonPhaseII_Final_Baseline	0.43	235.80	235.99	235.99	236.06	0.022972	1.17	0.40	3.24	0.99
Reach18	2112.23	10 Year	DonPhaseII_Final_Proposed	0.43	235.80	235.99	235.99	236.06	0.022972	1.17	0.40	3.24	0.99
Reach18	2112.23	5 Year	DonPhaseII_Final_Baseline	0.38	235.80	235.98	235.98	236.04	0.023780	1.14	0.36	3.12	1.00
Reach18	2112.23	5 Year	DonPhaseII_Final_Proposed	0.38	235.80	235.98	235.98	236.04	0.023780	1.14	0.36	3.12	1.00
Reach18	2112.23	2 Year	DonPhaseII_Final_Baseline	0.31	235.80	235.96	235.96	236.02	0.024160	1.07	0.31	2.96	0.99
Reach18	2112.23	2 Year	DonPhaseII_Final_Proposed	0.31	235.80	235.96	235.96	236.02	0.024160	1.07	0.31	2.96	0.99
Reach18	2000.54	Regional	DonPhaseII_Final_Baseline	49.03	235.49	236.97		236.99	0.000336	0.66	77.14	60.45	0.18
Reach18	2000.54	Regional	DonPhaseII_Final_Proposed	49.03	235.49	236.97		236.99	0.000336	0.66	77.14	60.45	0.18
Reach18	2000.54	350 Year	DonPhaseII_Final_Baseline	5.23	235.49	236.29		236.29	0.000036	0.14	38.06	54.40	0.05
Reach18	2000.54	350 Year	DonPhaseII_Final_Proposed	5.23	235.49	236.29		236.29	0.000036	0.14	38.06	54.40	0.05
Reach18	2000.54	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	235.49	235.96		235.96	0.000009	0.05	20.99	51.48	0.02
Reach18	2000.54	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	235.49	235.96		235.96	0.000009	0.05	20.99	51.48	0.02
Reach18	2000.54	100 Year	DonPhaseII_Final_Baseline	0.77	235.49	235.87		235.87	0.000013	0.05	16.12	50.55	0.03
Reach18	2000.54	100 Year	DonPhaseII_Final_Proposed	0.77	235.49	235.87		235.87	0.000013	0.05	16.12	50.55	0.03

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	2000.54	50 Year	DonPhaseII_Final_Baseline	0.59	235.49	235.80		235.80	0.000016	0.05	12.77	49.89	0.03
Reach18	2000.54	50 Year	DonPhaseII_Final_Proposed	0.59	235.49	235.80		235.80	0.000016	0.05	12.77	49.89	0.03
Reach18	2000.54	25 Year	DonPhaseII_Final_Baseline	0.49	235.49	235.77		235.77	0.000017	0.04	11.06	49.54	0.03
Reach18	2000.54	25 Year	DonPhaseII_Final_Proposed	0.49	235.49	235.77		235.77	0.000017	0.04	11.06	49.54	0.03
Reach18	2000.54	10 Year	DonPhaseII_Final_Baseline	0.43	235.49	235.76		235.76	0.000016	0.04	10.58	49.44	0.03
Reach18	2000.54	10 Year	DonPhaseII_Final_Proposed	0.43	235.49	235.76		235.76	0.000016	0.04	10.58	49.44	0.03
Reach18	2000.54	5 Year	DonPhaseII_Final_Baseline	0.38	235.49	235.74		235.74	0.000015	0.04	9.83	49.26	0.03
Reach18	2000.54	5 Year	DonPhaseII_Final_Proposed	0.38	235.49	235.74		235.74	0.000015	0.04	9.83	49.26	0.03
Reach18	2000.54	2 Year	DonPhaseII_Final_Baseline	0.31	235.49	235.72		235.72	0.000015	0.04	8.74	49.00	0.03
Reach18	2000.54	2 Year	DonPhaseII_Final_Proposed	0.31	235.49	235.72		235.72	0.000015	0.04	8.74	49.00	0.03
Reach18	1995.13	Regional	DonPhaseII_Final_Baseline	49.03	235.49	236.95	236.22	236.98	0.000597	0.87	58.79	61.43	0.24
Reach18	1995.13	Regional	DonPhaseII_Final_Proposed	49.03	235.49	236.95	236.22	236.98	0.000597	0.87	58.79	61.43	0.24
Reach18	1995.13	350 Year	DonPhaseII_Final_Baseline	5.23	235.49	236.28	235.95	236.29	0.000081	0.21	25.40	42.03	0.08
Reach18	1995.13	350 Year	DonPhaseII_Final_Proposed	5.23	235.49	236.28	235.95	236.29	0.000081	0.21	25.40	42.03	0.08
Reach18	1995.13	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	235.49	235.96	235.67	235.96	0.000555	0.38	2.67	37.09	0.19
Reach18	1995.13	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	235.49	235.96	235.67	235.96	0.000555	0.38	2.67	37.09	0.19
Reach18	1995.13	100 Year	DonPhaseII_Final_Baseline	0.77	235.49	235.86	235.65	235.87	0.000780	0.37	2.06	34.75	0.21
Reach18	1995.13	100 Year	DonPhaseII_Final_Proposed	0.77	235.49	235.86	235.65	235.87	0.000780	0.37	2.06	34.75	0.21
Reach18	1995.13	50 Year	DonPhaseII_Final_Baseline	0.59	235.49	235.79	235.63	235.80	0.000984	0.36	1.63	32.28	0.23
Reach18	1995.13	50 Year	DonPhaseII_Final_Proposed	0.59	235.49	235.79	235.63	235.80	0.000984	0.36	1.63	32.28	0.23
Reach18	1995.13	25 Year	DonPhaseII_Final_Baseline	0.49	235.49	235.76	235.62	235.77	0.001087	0.35	1.42	30.91	0.23
Reach18	1995.13	25 Year	DonPhaseII_Final_Proposed	0.49	235.49	235.76	235.62	235.77	0.001087	0.35	1.42	30.91	0.23
Reach18	1995.13	10 Year	DonPhaseII_Final_Baseline	0.43	235.49	235.75	235.62	235.76	0.000951	0.31	1.37	30.64	0.22
Reach18	1995.13	10 Year	DonPhaseII_Final_Proposed	0.43	235.49	235.75	235.62	235.76	0.000951	0.31	1.37	30.64	0.22
Reach18	1995.13	5 Year	DonPhaseII_Final_Baseline	0.38	235.49	235.74	235.61	235.74	0.000943	0.30	1.27	30.31	0.21
Reach18	1995.13	5 Year	DonPhaseII_Final_Proposed	0.38	235.49	235.74	235.61	235.74	0.000943	0.30	1.27	30.31	0.21
Reach18	1995.13	2 Year	DonPhaseII_Final_Baseline	0.31	235.49	235.72	235.60	235.72	0.000912	0.27	1.14	29.86	0.21
Reach18	1995.13	2 Year	DonPhaseII_Final_Proposed	0.31	235.49	235.72	235.60	235.72	0.000912	0.27	1.14	29.86	0.21
Reach18	1988.91			Culvert									
Reach18	1977	Regional	DonPhaseII_Final_Baseline	49.03	235.54	236.81	236.62	236.91	0.004753	1.55	36.01	54.80	0.47
Reach18	1977	Regional	DonPhaseII_Final_Proposed	49.03	235.54	236.81	236.62	236.91	0.004753	1.55	36.01	54.80	0.47
Reach18	1977	350 Year	DonPhaseII_Final_Baseline	5.23	235.54	236.06	236.06	236.20	0.016795	1.64	3.60	17.87	0.89
Reach18	1977	350 Year	DonPhaseII_Final_Proposed	5.23	235.54	236.06	236.06	236.20	0.016795	1.64	3.60	17.87	0.89
Reach18	1977	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	235.54	235.83	235.77	235.87	0.007127	0.82	1.21	6.48	0.61
Reach18	1977	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	235.54	235.83	235.77	235.87	0.007127	0.82	1.21	6.48	0.61
Reach18	1977	100 Year	DonPhaseII_Final_Baseline	0.77	235.54	235.79	235.74	235.82	0.008410	0.82	0.94	5.79	0.65
Reach18	1977	100 Year	DonPhaseII_Final_Proposed	0.77	235.54	235.79	235.74	235.82	0.008410	0.82	0.94	5.79	0.65
Reach18	1977	50 Year	DonPhaseII_Final_Baseline	0.59	235.54	235.75	235.71	235.78	0.009939	0.81	0.73	5.28	0.69
Reach18	1977	50 Year	DonPhaseII_Final_Proposed	0.59	235.54	235.75	235.71	235.78	0.009939	0.81	0.73	5.28	0.69
Reach18	1977	25 Year	DonPhaseII_Final_Baseline	0.49	235.54	235.73	235.70	235.76	0.010788	0.79	0.62	4.99	0.71
Reach18	1977	25 Year	DonPhaseII_Final_Proposed	0.49	235.54	235.73	235.70	235.76	0.010788	0.79	0.62	4.99	0.71
Reach18	1977	10 Year	DonPhaseII_Final_Baseline	0.43	235.54	235.71	235.69	235.74	0.012273	0.79	0.55	4.77	0.74
Reach18	1977	10 Year	DonPhaseII_Final_Proposed	0.43	235.54	235.71	235.69	235.74	0.012273	0.79	0.55	4.77	0.74
Reach18	1977	5 Year	DonPhaseII_Final_Baseline	0.38	235.54	235.70	235.68	235.73	0.013111	0.77	0.49	4.61	0.76
Reach18	1977	5 Year	DonPhaseII_Final_Proposed	0.38	235.54	235.70	235.68	235.73	0.013111	0.77	0.49	4.61	0.76
Reach18	1977	2 Year	DonPhaseII_Final_Baseline	0.31	235.54	235.68	235.67	235.71	0.014354	0.74	0.42	4.38	0.77

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1977	2 Year	DonPhaseII_Final_Proposed	0.31	235.54	235.68	235.67	235.71	0.014354	0.74	0.42	4.38	0.77
Reach18	1971.95	Regional	DonPhaseII_Final_Baseline	49.03	235.36	236.78	236.51	236.88	0.004692	2.28	44.29	55.65	0.64
Reach18	1971.95	Regional	DonPhaseII_Final_Proposed	49.03	235.36	236.78	236.51	236.88	0.004692	2.28	44.29	55.65	0.64
Reach18	1971.95	350 Year	DonPhaseII_Final_Baseline	5.23	235.36	235.99	235.99	236.09	0.010777	1.82	6.70	31.93	0.83
Reach18	1971.95	350 Year	DonPhaseII_Final_Proposed	5.23	235.36	235.99	235.99	236.09	0.010777	1.82	6.70	31.93	0.83
Reach18	1971.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	235.36	235.69	235.69	235.79	0.019548	1.48	0.87	4.66	0.99
Reach18	1971.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	235.36	235.69	235.69	235.79	0.019548	1.48	0.87	4.66	0.99
Reach18	1971.95	100 Year	DonPhaseII_Final_Baseline	0.77	235.36	235.65	235.65	235.74	0.020021	1.38	0.70	4.33	0.98
Reach18	1971.95	100 Year	DonPhaseII_Final_Proposed	0.77	235.36	235.65	235.65	235.74	0.020021	1.38	0.70	4.33	0.98
Reach18	1971.95	50 Year	DonPhaseII_Final_Baseline	0.59	235.36	235.62	235.62	235.70	0.020746	1.28	0.56	4.00	0.97
Reach18	1971.95	50 Year	DonPhaseII_Final_Proposed	0.59	235.36	235.62	235.62	235.70	0.020746	1.28	0.56	4.00	0.97
Reach18	1971.95	25 Year	DonPhaseII_Final_Baseline	0.49	235.36	235.60	235.60	235.67	0.021887	1.23	0.48	3.78	0.98
Reach18	1971.95	25 Year	DonPhaseII_Final_Proposed	0.49	235.36	235.60	235.60	235.67	0.021887	1.23	0.48	3.78	0.98
Reach18	1971.95	10 Year	DonPhaseII_Final_Baseline	0.43	235.36	235.59	235.59	235.65	0.021161	1.17	0.44	3.67	0.96
Reach18	1971.95	10 Year	DonPhaseII_Final_Proposed	0.43	235.36	235.59	235.59	235.65	0.021161	1.17	0.44	3.67	0.96
Reach18	1971.95	5 Year	DonPhaseII_Final_Baseline	0.38	235.36	235.58	235.58	235.64	0.021622	1.13	0.39	3.55	0.96
Reach18	1971.95	5 Year	DonPhaseII_Final_Proposed	0.38	235.36	235.58	235.58	235.64	0.021622	1.13	0.39	3.55	0.96
Reach18	1971.95	2 Year	DonPhaseII_Final_Baseline	0.31	235.36	235.56	235.56	235.61	0.022740	1.08	0.33	3.36	0.97
Reach18	1971.95	2 Year	DonPhaseII_Final_Proposed	0.31	235.36	235.56	235.56	235.61	0.022740	1.08	0.33	3.36	0.97
Reach18	1938.68	Regional	DonPhaseII_Final_Baseline	49.03	234.47	236.72		236.81	0.001794	2.03	50.39	39.98	0.44
Reach18	1938.68	Regional	DonPhaseII_Final_Proposed	49.03	234.47	236.72		236.81	0.001794	2.03	50.39	39.98	0.44
Reach18	1938.68	350 Year	DonPhaseII_Final_Baseline	5.23	234.47	235.92		235.93	0.000306	0.62	20.31	34.78	0.17
Reach18	1938.68	350 Year	DonPhaseII_Final_Proposed	5.23	234.47	235.92		235.93	0.000306	0.62	20.31	34.78	0.17
Reach18	1938.68	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	234.47	235.05		235.07	0.000973	0.57	2.42	7.10	0.25
Reach18	1938.68	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	234.47	235.05		235.07	0.000973	0.57	2.42	7.10	0.25
Reach18	1938.68	100 Year	DonPhaseII_Final_Baseline	0.77	234.47	234.97		234.99	0.001092	0.54	1.86	6.26	0.26
Reach18	1938.68	100 Year	DonPhaseII_Final_Proposed	0.77	234.47	234.97		234.99	0.001092	0.54	1.86	6.26	0.26
Reach18	1938.68	50 Year	DonPhaseII_Final_Baseline	0.59	234.47	234.90		234.92	0.001187	0.50	1.46	5.56	0.26
Reach18	1938.68	50 Year	DonPhaseII_Final_Proposed	0.59	234.47	234.90		234.92	0.001187	0.50	1.46	5.56	0.26
Reach18	1938.68	25 Year	DonPhaseII_Final_Baseline	0.49	234.47	234.86		234.87	0.001227	0.47	1.25	5.19	0.26
Reach18	1938.68	25 Year	DonPhaseII_Final_Proposed	0.49	234.47	234.86		234.87	0.001227	0.47	1.25	5.19	0.26
Reach18	1938.68	10 Year	DonPhaseII_Final_Baseline	0.43	234.47	234.84		234.85	0.001242	0.45	1.12	4.95	0.26
Reach18	1938.68	10 Year	DonPhaseII_Final_Proposed	0.43	234.47	234.84		234.85	0.001242	0.45	1.12	4.95	0.26
Reach18	1938.68	5 Year	DonPhaseII_Final_Baseline	0.38	234.47	234.82		234.83	0.001254	0.43	1.02	4.75	0.26
Reach18	1938.68	5 Year	DonPhaseII_Final_Proposed	0.38	234.47	234.82		234.83	0.001254	0.43	1.02	4.75	0.26
Reach18	1938.68	2 Year	DonPhaseII_Final_Baseline	0.31	234.47	234.79		234.79	0.001267	0.40	0.87	4.45	0.26
Reach18	1938.68	2 Year	DonPhaseII_Final_Proposed	0.31	234.47	234.79		234.79	0.001267	0.40	0.87	4.45	0.26
Reach18	1917.69	Regional	DonPhaseII_Final_Baseline	49.03	234.42	236.74		236.77	0.000521	1.10	67.03	46.26	0.24
Reach18	1917.69	Regional	DonPhaseII_Final_Proposed	49.03	234.42	236.74		236.77	0.000521	1.10	67.03	46.26	0.24
Reach18	1917.69	350 Year	DonPhaseII_Final_Baseline	5.23	234.42	235.93		235.93	0.000055	0.26	31.46	40.56	0.07
Reach18	1917.69	350 Year	DonPhaseII_Final_Proposed	5.23	234.42	235.93		235.93	0.000055	0.26	31.46	40.56	0.07
Reach18	1917.69	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	234.42	235.05		235.06	0.000238	0.29	4.41	14.79	0.13
Reach18	1917.69	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	234.42	235.05		235.06	0.000238	0.29	4.41	14.79	0.13
Reach18	1917.69	100 Year	DonPhaseII_Final_Baseline	0.77	234.42	234.97		234.97	0.000336	0.30	3.23	12.65	0.15
Reach18	1917.69	100 Year	DonPhaseII_Final_Proposed	0.77	234.42	234.97		234.97	0.000336	0.30	3.23	12.65	0.15
Reach18	1917.69	50 Year	DonPhaseII_Final_Baseline	0.59	234.42	234.89		234.90	0.000451	0.31	2.37	11.21	0.16

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1917.69	50 Year	DonPhaseII_Final_Proposed	0.59	234.42	234.89		234.90	0.000451	0.31	2.37	11.21	0.16
Reach18	1917.69	25 Year	DonPhaseII_Final_Baseline	0.49	234.42	234.85		234.86	0.000544	0.31	1.91	10.41	0.18
Reach18	1917.69	25 Year	DonPhaseII_Final_Proposed	0.49	234.42	234.85		234.86	0.000544	0.31	1.91	10.41	0.18
Reach18	1917.69	10 Year	DonPhaseII_Final_Baseline	0.43	234.42	234.83		234.83	0.000615	0.32	1.64	9.91	0.18
Reach18	1917.69	10 Year	DonPhaseII_Final_Proposed	0.43	234.42	234.83		234.83	0.000615	0.32	1.64	9.91	0.18
Reach18	1917.69	5 Year	DonPhaseII_Final_Baseline	0.38	234.42	234.80		234.81	0.000672	0.31	1.42	8.90	0.19
Reach18	1917.69	5 Year	DonPhaseII_Final_Proposed	0.38	234.42	234.80		234.81	0.000672	0.31	1.42	8.90	0.19
Reach18	1917.69	2 Year	DonPhaseII_Final_Baseline	0.31	234.42	234.77		234.77	0.000726	0.30	1.16	7.13	0.19
Reach18	1917.69	2 Year	DonPhaseII_Final_Proposed	0.31	234.42	234.77		234.77	0.000726	0.30	1.16	7.13	0.19
Reach18	1907.73	Regional	DonPhaseII_Final_Baseline	49.03	234.50	236.72	235.88	236.76	0.000651	1.20	70.37	49.82	0.26
Reach18	1907.73	Regional	DonPhaseII_Final_Proposed	49.03	234.50	236.72	235.88	236.76	0.000651	1.20	70.37	49.82	0.26
Reach18	1907.73	350 Year	DonPhaseII_Final_Baseline	5.23	234.50	235.92	235.12	235.93	0.000114	0.37	28.04	43.53	0.10
Reach18	1907.73	350 Year	DonPhaseII_Final_Proposed	5.23	234.50	235.92	235.12	235.93	0.000114	0.37	28.04	43.53	0.10
Reach18	1907.73	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	234.50	235.04	234.80	235.05	0.000937	0.52	2.75	19.12	0.24
Reach18	1907.73	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	234.50	235.04	234.80	235.05	0.000937	0.52	2.75	19.12	0.24
Reach18	1907.73	100 Year	DonPhaseII_Final_Baseline	0.77	234.50	234.95	234.78	234.96	0.001402	0.55	1.98	14.83	0.29
Reach18	1907.73	100 Year	DonPhaseII_Final_Proposed	0.77	234.50	234.95	234.78	234.96	0.001402	0.55	1.98	14.83	0.29
Reach18	1907.73	50 Year	DonPhaseII_Final_Baseline	0.59	234.50	234.87	234.74	234.89	0.002254	0.59	1.35	12.20	0.35
Reach18	1907.73	50 Year	DonPhaseII_Final_Proposed	0.59	234.50	234.87	234.74	234.89	0.002254	0.59	1.35	12.20	0.35
Reach18	1907.73	25 Year	DonPhaseII_Final_Baseline	0.49	234.50	234.82	234.72	234.84	0.003333	0.64	0.98	9.89	0.41
Reach18	1907.73	25 Year	DonPhaseII_Final_Proposed	0.49	234.50	234.82	234.72	234.84	0.003333	0.64	0.98	9.89	0.41
Reach18	1907.73	10 Year	DonPhaseII_Final_Baseline	0.43	234.50	234.79	234.71	234.81	0.004283	0.66	0.76	6.97	0.46
Reach18	1907.73	10 Year	DonPhaseII_Final_Proposed	0.43	234.50	234.79	234.71	234.81	0.004283	0.66	0.76	6.97	0.46
Reach18	1907.73	5 Year	DonPhaseII_Final_Baseline	0.38	234.50	234.76	234.70	234.79	0.005496	0.68	0.62	4.55	0.51
Reach18	1907.73	5 Year	DonPhaseII_Final_Proposed	0.38	234.50	234.76	234.70	234.79	0.005496	0.68	0.62	4.55	0.51
Reach18	1907.73	2 Year	DonPhaseII_Final_Baseline	0.31	234.50	234.72	234.68	234.75	0.008767	0.73	0.45	3.77	0.62
Reach18	1907.73	2 Year	DonPhaseII_Final_Proposed	0.31	234.50	234.72	234.68	234.75	0.008767	0.73	0.45	3.77	0.62
Reach18	1900.6			Culvert									
Reach18	1889.61	Regional	DonPhaseII_Final_Baseline	49.03	233.44	235.21	235.21	235.64	0.010164	4.18	28.53	30.02	1.01
Reach18	1889.61	Regional	DonPhaseII_Final_Proposed	49.03	233.44	235.21	235.21	235.64	0.010164	4.18	28.53	30.02	1.01
Reach18	1889.61	350 Year	DonPhaseII_Final_Baseline	5.23	233.44	234.27	233.97	234.35	0.003718	1.51	5.24	10.82	0.54
Reach18	1889.61	350 Year	DonPhaseII_Final_Proposed	5.23	233.44	234.27	233.97	234.35	0.003718	1.51	5.24	10.82	0.54
Reach18	1889.61	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	233.44	233.72	233.65	233.76	0.007191	0.98	1.46	8.63	0.62
Reach18	1889.61	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	233.44	233.72	233.65	233.76	0.007191	0.98	1.46	8.63	0.62
Reach18	1889.61	100 Year	DonPhaseII_Final_Baseline	0.77	233.44	233.68	233.62	233.71	0.008175	0.93	1.18	8.31	0.64
Reach18	1889.61	100 Year	DonPhaseII_Final_Proposed	0.77	233.44	233.68	233.62	233.71	0.008175	0.93	1.18	8.31	0.64
Reach18	1889.61	50 Year	DonPhaseII_Final_Baseline	0.59	233.44	233.64	233.60	233.67	0.009265	0.87	0.95	7.99	0.66
Reach18	1889.61	50 Year	DonPhaseII_Final_Proposed	0.59	233.44	233.64	233.60	233.67	0.009265	0.87	0.95	7.99	0.66
Reach18	1889.61	25 Year	DonPhaseII_Final_Baseline	0.49	233.44	233.62	233.59	233.65	0.010068	0.84	0.82	7.80	0.67
Reach18	1889.61	25 Year	DonPhaseII_Final_Proposed	0.49	233.44	233.62	233.59	233.65	0.010068	0.84	0.82	7.80	0.67
Reach18	1889.61	10 Year	DonPhaseII_Final_Baseline	0.43	233.44	233.61	233.58	233.63	0.010323	0.80	0.75	7.69	0.67
Reach18	1889.61	10 Year	DonPhaseII_Final_Proposed	0.43	233.44	233.61	233.58	233.63	0.010323	0.80	0.75	7.69	0.67
Reach18	1889.61	5 Year	DonPhaseII_Final_Baseline	0.38	233.44	233.60	233.57	233.62	0.010557	0.77	0.68	7.60	0.67
Reach18	1889.61	5 Year	DonPhaseII_Final_Proposed	0.38	233.44	233.60	233.57	233.62	0.010557	0.77	0.68	7.60	0.67
Reach18	1889.61	2 Year	DonPhaseII_Final_Baseline	0.31	233.44	233.58	233.56	233.60	0.011089	0.73	0.59	7.45	0.67
Reach18	1889.61	2 Year	DonPhaseII_Final_Proposed	0.31	233.44	233.58	233.56	233.60	0.011089	0.73	0.59	7.45	0.67

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1873.91	Regional	DonPhaseII_Final_Baseline	49.03	233.06	234.97	234.97	235.34	0.011090	4.46	32.37	39.72	1.05
Reach18	1873.91	Regional	DonPhaseII_Final_Proposed	49.03	233.06	234.97	234.97	235.34	0.011090	4.46	32.37	39.72	1.05
Reach18	1873.91	350 Year	DonPhaseII_Final_Baseline	5.23	233.06	233.97	233.97	234.22	0.010216	2.52	3.85	9.74	0.88
Reach18	1873.91	350 Year	DonPhaseII_Final_Proposed	5.23	233.06	233.97	233.97	234.22	0.010216	2.52	3.85	9.74	0.88
Reach18	1873.91	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	233.06	233.44	233.44	233.57	0.016702	1.64	0.74	3.41	0.96
Reach18	1873.91	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	233.06	233.44	233.44	233.57	0.016702	1.64	0.74	3.41	0.96
Reach18	1873.91	100 Year	DonPhaseII_Final_Baseline	0.77	233.06	233.39	233.39	233.51	0.018007	1.52	0.59	3.09	0.97
Reach18	1873.91	100 Year	DonPhaseII_Final_Proposed	0.77	233.06	233.39	233.39	233.51	0.018007	1.52	0.59	3.09	0.97
Reach18	1873.91	50 Year	DonPhaseII_Final_Baseline	0.59	233.06	233.35	233.35	233.45	0.019437	1.41	0.47	2.81	0.97
Reach18	1873.91	50 Year	DonPhaseII_Final_Proposed	0.59	233.06	233.35	233.35	233.45	0.019437	1.41	0.47	2.81	0.97
Reach18	1873.91	25 Year	DonPhaseII_Final_Baseline	0.49	233.06	233.33	233.33	233.42	0.020415	1.33	0.40	2.64	0.98
Reach18	1873.91	25 Year	DonPhaseII_Final_Proposed	0.49	233.06	233.33	233.33	233.42	0.020415	1.33	0.40	2.64	0.98
Reach18	1873.91	10 Year	DonPhaseII_Final_Baseline	0.43	233.06	233.31	233.31	233.40	0.021091	1.28	0.36	2.53	0.98
Reach18	1873.91	10 Year	DonPhaseII_Final_Proposed	0.43	233.06	233.31	233.31	233.40	0.021091	1.28	0.36	2.53	0.98
Reach18	1873.91	5 Year	DonPhaseII_Final_Baseline	0.38	233.06	233.30	233.30	233.38	0.022127	1.24	0.33	2.43	0.99
Reach18	1873.91	5 Year	DonPhaseII_Final_Proposed	0.38	233.06	233.30	233.30	233.38	0.022127	1.24	0.33	2.43	0.99
Reach18	1873.91	2 Year	DonPhaseII_Final_Baseline	0.31	233.06	233.28	233.28	233.35	0.023330	1.16	0.28	2.30	0.99
Reach18	1873.91	2 Year	DonPhaseII_Final_Proposed	0.31	233.06	233.28	233.28	233.35	0.023330	1.16	0.28	2.30	0.99
Reach18	1811.95	Regional	DonPhaseII_Final_Baseline	49.03	232.43	234.20		234.53	0.008831	3.85	34.55	39.94	0.94
Reach18	1811.95	Regional	DonPhaseII_Final_Proposed	49.03	232.43	234.20		234.53	0.008831	3.85	34.55	39.94	0.94
Reach18	1811.95	350 Year	DonPhaseII_Final_Baseline	5.23	232.43	233.26		233.35	0.004316	1.59	5.89	12.97	0.57
Reach18	1811.95	350 Year	DonPhaseII_Final_Proposed	5.23	232.43	233.26		233.35	0.004316	1.59	5.89	12.97	0.57
Reach18	1811.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	232.43	232.83		232.86	0.002838	0.77	1.82	6.33	0.41
Reach18	1811.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	232.43	232.83		232.86	0.002838	0.77	1.82	6.33	0.41
Reach18	1811.95	100 Year	DonPhaseII_Final_Baseline	0.77	232.43	232.78		232.80	0.002952	0.70	1.50	6.04	0.41
Reach18	1811.95	100 Year	DonPhaseII_Final_Proposed	0.77	232.43	232.78		232.80	0.002952	0.70	1.50	6.04	0.41
Reach18	1811.95	50 Year	DonPhaseII_Final_Baseline	0.59	232.43	232.73		232.75	0.003249	0.66	1.20	5.77	0.41
Reach18	1811.95	50 Year	DonPhaseII_Final_Proposed	0.59	232.43	232.73		232.75	0.003249	0.66	1.20	5.77	0.41
Reach18	1811.95	25 Year	DonPhaseII_Final_Baseline	0.49	232.43	232.70		232.72	0.003514	0.63	1.03	5.61	0.42
Reach18	1811.95	25 Year	DonPhaseII_Final_Proposed	0.49	232.43	232.70		232.72	0.003514	0.63	1.03	5.61	0.42
Reach18	1811.95	10 Year	DonPhaseII_Final_Baseline	0.43	232.43	232.68		232.70	0.003724	0.61	0.92	5.50	0.43
Reach18	1811.95	10 Year	DonPhaseII_Final_Proposed	0.43	232.43	232.68		232.70	0.003724	0.61	0.92	5.50	0.43
Reach18	1811.95	5 Year	DonPhaseII_Final_Baseline	0.38	232.43	232.67		232.68	0.003925	0.59	0.83	5.41	0.43
Reach18	1811.95	5 Year	DonPhaseII_Final_Proposed	0.38	232.43	232.67		232.68	0.003925	0.59	0.83	5.41	0.43
Reach18	1811.95	2 Year	DonPhaseII_Final_Baseline	0.31	232.43	232.64		232.66	0.004199	0.56	0.71	5.28	0.44
Reach18	1811.95	2 Year	DonPhaseII_Final_Proposed	0.31	232.43	232.64		232.66	0.004199	0.56	0.71	5.28	0.44
Reach18	1755.98	Regional	DonPhaseII_Final_Baseline	49.03	232.11	233.96		234.12	0.005627	2.77	41.51	41.79	0.71
Reach18	1755.98	Regional	DonPhaseII_Final_Proposed	49.03	232.11	233.96		234.12	0.005627	2.77	41.51	41.79	0.71
Reach18	1755.98	350 Year	DonPhaseII_Final_Baseline	5.23	232.11	232.99		233.07	0.006297	1.53	6.79	22.60	0.64
Reach18	1755.98	350 Year	DonPhaseII_Final_Proposed	5.23	232.11	232.99		233.07	0.006297	1.53	6.79	22.60	0.64
Reach18	1755.98	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	232.11	232.66		232.69	0.003343	0.84	1.48	8.33	0.44
Reach18	1755.98	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	232.11	232.66		232.69	0.003343	0.84	1.48	8.33	0.44
Reach18	1755.98	100 Year	DonPhaseII_Final_Baseline	0.77	232.11	232.60		232.63	0.003293	0.78	1.08	5.71	0.43
Reach18	1755.98	100 Year	DonPhaseII_Final_Proposed	0.77	232.11	232.60		232.63	0.003293	0.78	1.08	5.71	0.43
Reach18	1755.98	50 Year	DonPhaseII_Final_Baseline	0.59	232.11	232.55		232.57	0.003171	0.71	0.87	3.22	0.41
Reach18	1755.98	50 Year	DonPhaseII_Final_Proposed	0.59	232.11	232.55		232.57	0.003171	0.71	0.87	3.22	0.41

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1755.98	25 Year	DonPhaseII_Final_Baseline	0.49	232.11	232.51		232.54	0.003117	0.66	0.77	3.06	0.40
Reach18	1755.98	25 Year	DonPhaseII_Final_Proposed	0.49	232.11	232.51		232.54	0.003117	0.66	0.77	3.06	0.40
Reach18	1755.98	10 Year	DonPhaseII_Final_Baseline	0.43	232.11	232.49		232.51	0.003128	0.63	0.70	2.94	0.40
Reach18	1755.98	10 Year	DonPhaseII_Final_Proposed	0.43	232.11	232.49		232.51	0.003128	0.63	0.70	2.94	0.40
Reach18	1755.98	5 Year	DonPhaseII_Final_Baseline	0.38	232.11	232.47		232.49	0.003138	0.61	0.64	2.85	0.39
Reach18	1755.98	5 Year	DonPhaseII_Final_Proposed	0.38	232.11	232.47		232.49	0.003138	0.61	0.64	2.85	0.39
Reach18	1755.98	2 Year	DonPhaseII_Final_Baseline	0.31	232.11	232.44		232.46	0.003062	0.56	0.56	2.71	0.38
Reach18	1755.98	2 Year	DonPhaseII_Final_Proposed	0.31	232.11	232.44		232.46	0.003062	0.56	0.56	2.71	0.38
Reach18	1711.95	Regional	DonPhaseII_Final_Baseline	49.03	231.92	233.47	233.31	233.75	0.012073	4.06	31.36	33.53	1.06
Reach18	1711.95	Regional	DonPhaseII_Final_Proposed	49.03	231.92	233.47	233.31	233.75	0.012073	4.06	31.36	33.53	1.06
Reach18	1711.95	350 Year	DonPhaseII_Final_Baseline	5.23	231.92	232.50	232.50	232.63	0.015613	2.27	5.44	18.06	1.01
Reach18	1711.95	350 Year	DonPhaseII_Final_Proposed	5.23	231.92	232.50	232.50	232.63	0.015613	2.27	5.44	18.06	1.01
Reach18	1711.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	231.92	232.28	232.28	232.40	0.016764	1.61	0.78	10.98	0.95
Reach18	1711.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	231.92	232.28	232.28	232.40	0.016764	1.61	0.78	10.98	0.95
Reach18	1711.95	100 Year	DonPhaseII_Final_Baseline	0.77	231.92	232.23	232.23	232.34	0.017730	1.48	0.63	10.10	0.96
Reach18	1711.95	100 Year	DonPhaseII_Final_Proposed	0.77	231.92	232.23	232.23	232.34	0.017730	1.48	0.63	10.10	0.96
Reach18	1711.95	50 Year	DonPhaseII_Final_Baseline	0.59	231.92	232.19	232.19	232.29	0.018997	1.37	0.50	9.35	0.96
Reach18	1711.95	50 Year	DonPhaseII_Final_Proposed	0.59	231.92	232.19	232.19	232.29	0.018997	1.37	0.50	9.35	0.96
Reach18	1711.95	25 Year	DonPhaseII_Final_Baseline	0.49	231.92	232.18	232.17	232.25	0.018256	1.26	0.44	9.00	0.93
Reach18	1711.95	25 Year	DonPhaseII_Final_Proposed	0.49	231.92	232.18	232.17	232.25	0.018256	1.26	0.44	9.00	0.93
Reach18	1711.95	10 Year	DonPhaseII_Final_Baseline	0.43	231.92	232.16	232.16	232.23	0.017723	1.19	0.41	8.77	0.90
Reach18	1711.95	10 Year	DonPhaseII_Final_Proposed	0.43	231.92	232.16	232.16	232.23	0.017723	1.19	0.41	8.77	0.90
Reach18	1711.95	5 Year	DonPhaseII_Final_Baseline	0.38	231.92	232.15	232.14	232.22	0.017174	1.12	0.38	8.57	0.88
Reach18	1711.95	5 Year	DonPhaseII_Final_Proposed	0.38	231.92	232.15	232.14	232.22	0.017174	1.12	0.38	8.57	0.88
Reach18	1711.95	2 Year	DonPhaseII_Final_Baseline	0.31	231.92	232.14	232.12	232.19	0.016785	1.03	0.33	8.18	0.85
Reach18	1711.95	2 Year	DonPhaseII_Final_Proposed	0.31	231.92	232.14	232.12	232.19	0.016785	1.03	0.33	8.18	0.85
Reach18	1671.22	Regional	DonPhaseII_Final_Baseline	54.32	231.16	233.30		233.46	0.004831	3.24	52.11	51.31	0.72
Reach18	1671.22	Regional	DonPhaseII_Final_Proposed	54.32	231.16	233.30		233.46	0.004831	3.24	52.11	51.31	0.72
Reach18	1671.22	350 Year	DonPhaseII_Final_Baseline	5.90	231.16	232.03	232.03	232.21	0.008424	2.31	5.96	17.37	0.81
Reach18	1671.22	350 Year	DonPhaseII_Final_Proposed	5.90	231.16	232.03	232.03	232.21	0.008424	2.31	5.96	17.37	0.81
Reach18	1671.22	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	231.16	231.49	231.49	231.62	0.017049	1.64	0.79	3.65	0.97
Reach18	1671.22	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	231.16	231.49	231.49	231.62	0.017049	1.64	0.79	3.65	0.97
Reach18	1671.22	100 Year	DonPhaseII_Final_Baseline	0.79	231.16	231.45	231.45	231.56	0.017885	1.50	0.63	3.36	0.96
Reach18	1671.22	100 Year	DonPhaseII_Final_Proposed	0.79	231.16	231.45	231.45	231.56	0.017885	1.50	0.63	3.36	0.96
Reach18	1671.22	50 Year	DonPhaseII_Final_Baseline	0.61	231.16	231.41	231.41	231.51	0.019360	1.40	0.51	3.10	0.98
Reach18	1671.22	50 Year	DonPhaseII_Final_Proposed	0.61	231.16	231.41	231.41	231.51	0.019360	1.40	0.51	3.10	0.98
Reach18	1671.22	25 Year	DonPhaseII_Final_Baseline	0.51	231.16	231.39	231.39	231.47	0.020166	1.32	0.44	2.95	0.98
Reach18	1671.22	25 Year	DonPhaseII_Final_Proposed	0.51	231.16	231.39	231.39	231.47	0.020166	1.32	0.44	2.95	0.98
Reach18	1671.22	10 Year	DonPhaseII_Final_Baseline	0.44	231.16	231.37	231.37	231.45	0.020987	1.26	0.39	2.83	0.98
Reach18	1671.22	10 Year	DonPhaseII_Final_Proposed	0.44	231.16	231.37	231.37	231.45	0.020987	1.26	0.39	2.83	0.98
Reach18	1671.22	5 Year	DonPhaseII_Final_Baseline	0.39	231.16	231.36	231.36	231.43	0.021584	1.22	0.35	2.75	0.98
Reach18	1671.22	5 Year	DonPhaseII_Final_Proposed	0.39	231.16	231.36	231.36	231.43	0.021584	1.22	0.35	2.75	0.98
Reach18	1671.22	2 Year	DonPhaseII_Final_Baseline	0.32	231.16	231.34	231.34	231.41	0.022102	1.14	0.31	2.63	0.97
Reach18	1671.22	2 Year	DonPhaseII_Final_Proposed	0.32	231.16	231.34	231.34	231.41	0.022102	1.14	0.31	2.63	0.97
Reach18	1628.94	Regional	DonPhaseII_Final_Baseline	54.32	230.64	232.62	232.62	233.12	0.013093	4.97	29.78	29.46	1.15
Reach18	1628.94	Regional	DonPhaseII_Final_Proposed	54.32	230.64	232.62	232.62	233.12	0.013093	4.97	29.78	29.46	1.15

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1628.94	350 Year	DonPhaseII_Final_Baseline	5.90	230.64	231.62	231.62	231.81	0.007571	2.30	5.61	17.47	0.77
Reach18	1628.94	350 Year	DonPhaseII_Final_Proposed	5.90	230.64	231.62	231.62	231.81	0.007571	2.30	5.61	17.47	0.77
Reach18	1628.94	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	230.64	231.11		231.18	0.006408	1.21	1.11	4.21	0.62
Reach18	1628.94	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	230.64	231.11		231.18	0.006408	1.21	1.11	4.21	0.62
Reach18	1628.94	100 Year	DonPhaseII_Final_Baseline	0.79	230.64	231.07		231.12	0.005993	1.08	0.92	3.85	0.59
Reach18	1628.94	100 Year	DonPhaseII_Final_Proposed	0.79	230.64	231.07		231.12	0.005993	1.08	0.92	3.85	0.59
Reach18	1628.94	50 Year	DonPhaseII_Final_Baseline	0.61	230.64	231.03		231.07	0.005532	0.95	0.78	3.55	0.55
Reach18	1628.94	50 Year	DonPhaseII_Final_Proposed	0.61	230.64	231.03		231.07	0.005532	0.95	0.78	3.55	0.55
Reach18	1628.94	25 Year	DonPhaseII_Final_Baseline	0.51	230.64	231.00		231.04	0.005278	0.88	0.69	3.36	0.53
Reach18	1628.94	25 Year	DonPhaseII_Final_Proposed	0.51	230.64	231.00		231.04	0.005278	0.88	0.69	3.36	0.53
Reach18	1628.94	10 Year	DonPhaseII_Final_Baseline	0.44	230.64	230.98		231.01	0.005103	0.82	0.62	3.22	0.52
Reach18	1628.94	10 Year	DonPhaseII_Final_Proposed	0.44	230.64	230.98		231.01	0.005103	0.82	0.62	3.22	0.52
Reach18	1628.94	5 Year	DonPhaseII_Final_Baseline	0.39	230.64	230.97		231.00	0.004961	0.78	0.58	3.12	0.50
Reach18	1628.94	5 Year	DonPhaseII_Final_Proposed	0.39	230.64	230.97		231.00	0.004961	0.78	0.58	3.12	0.50
Reach18	1628.94	2 Year	DonPhaseII_Final_Baseline	0.32	230.64	230.94		230.97	0.004992	0.72	0.50	2.93	0.50
Reach18	1628.94	2 Year	DonPhaseII_Final_Proposed	0.32	230.64	230.94		230.97	0.004992	0.72	0.50	2.93	0.50
Reach18	1567	Regional	DonPhaseII_Final_Baseline	54.32	230.16	231.96	231.96	232.36	0.011605	4.40	33.63	37.01	1.07
Reach18	1567	Regional	DonPhaseII_Final_Proposed	54.32	230.16	231.96	231.96	232.36	0.011605	4.40	33.63	37.01	1.07
Reach18	1567	350 Year	DonPhaseII_Final_Baseline	5.90	230.16	231.01	231.01	231.25	0.009920	2.40	4.47	13.42	0.87
Reach18	1567	350 Year	DonPhaseII_Final_Proposed	5.90	230.16	231.01	231.01	231.25	0.009920	2.40	4.47	13.42	0.87
Reach18	1567	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	230.16	230.50	230.48	230.60	0.015565	1.47	0.80	3.89	0.91
Reach18	1567	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	230.16	230.50	230.48	230.60	0.015565	1.47	0.80	3.89	0.91
Reach18	1567	100 Year	DonPhaseII_Final_Baseline	0.79	230.16	230.45	230.44	230.55	0.016917	1.36	0.64	3.49	0.92
Reach18	1567	100 Year	DonPhaseII_Final_Proposed	0.79	230.16	230.45	230.44	230.55	0.016917	1.36	0.64	3.49	0.92
Reach18	1567	50 Year	DonPhaseII_Final_Baseline	0.61	230.16	230.42	230.41	230.50	0.019004	1.27	0.52	3.17	0.94
Reach18	1567	50 Year	DonPhaseII_Final_Proposed	0.61	230.16	230.42	230.41	230.50	0.019004	1.27	0.52	3.17	0.94
Reach18	1567	25 Year	DonPhaseII_Final_Baseline	0.51	230.16	230.39	230.39	230.47	0.020460	1.22	0.45	2.99	0.96
Reach18	1567	25 Year	DonPhaseII_Final_Proposed	0.51	230.16	230.39	230.39	230.47	0.020460	1.22	0.45	2.99	0.96
Reach18	1567	10 Year	DonPhaseII_Final_Baseline	0.44	230.16	230.38	230.37	230.45	0.021482	1.18	0.39	2.84	0.97
Reach18	1567	10 Year	DonPhaseII_Final_Proposed	0.44	230.16	230.38	230.37	230.45	0.021482	1.18	0.39	2.84	0.97
Reach18	1567	5 Year	DonPhaseII_Final_Baseline	0.39	230.16	230.36	230.36	230.43	0.022485	1.16	0.35	2.71	0.98
Reach18	1567	5 Year	DonPhaseII_Final_Proposed	0.39	230.16	230.36	230.36	230.43	0.022485	1.16	0.35	2.71	0.98
Reach18	1567	2 Year	DonPhaseII_Final_Baseline	0.32	230.16	230.35	230.34	230.40	0.021343	1.07	0.31	2.58	0.94
Reach18	1567	2 Year	DonPhaseII_Final_Proposed	0.32	230.16	230.35	230.34	230.40	0.021343	1.07	0.31	2.58	0.94
Reach18	1511.95	Regional	DonPhaseII_Final_Baseline	54.32	229.57	231.20	231.20	231.54	0.012098	4.02	31.83	46.01	1.05
Reach18	1511.95	Regional	DonPhaseII_Final_Proposed	54.32	229.57	231.20	231.20	231.54	0.012098	4.02	31.83	46.01	1.05
Reach18	1511.95	350 Year	DonPhaseII_Final_Baseline	5.90	229.57	230.44	230.44	230.58	0.007172	1.92	5.67	25.33	0.72
Reach18	1511.95	350 Year	DonPhaseII_Final_Proposed	5.90	229.57	230.44	230.44	230.58	0.007172	1.92	5.67	25.33	0.72
Reach18	1511.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	229.57	230.04	229.93	230.09	0.005905	1.02	1.07	3.73	0.57
Reach18	1511.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	229.57	230.04	229.93	230.09	0.005905	1.02	1.07	3.73	0.57
Reach18	1511.95	100 Year	DonPhaseII_Final_Baseline	0.79	229.57	229.99	229.88	230.03	0.005680	0.93	0.90	3.46	0.55
Reach18	1511.95	100 Year	DonPhaseII_Final_Proposed	0.79	229.57	229.99	229.88	230.03	0.005680	0.93	0.90	3.46	0.55
Reach18	1511.95	50 Year	DonPhaseII_Final_Baseline	0.61	229.57	229.95	229.85	229.98	0.005343	0.84	0.76	3.22	0.52
Reach18	1511.95	50 Year	DonPhaseII_Final_Proposed	0.61	229.57	229.95	229.85	229.98	0.005343	0.84	0.76	3.22	0.52
Reach18	1511.95	25 Year	DonPhaseII_Final_Baseline	0.51	229.57	229.92	229.82	229.95	0.005210	0.78	0.67	3.07	0.51
Reach18	1511.95	25 Year	DonPhaseII_Final_Proposed	0.51	229.57	229.92	229.82	229.95	0.005210	0.78	0.67	3.07	0.51
Reach18	1511.95	10 Year	DonPhaseII_Final_Baseline	0.44	229.57	229.90	229.81	229.93	0.005087	0.74	0.61	2.96	0.50

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1511.95	10 Year	DonPhaseII_Final_Proposed	0.44	229.57	229.90	229.81	229.93	0.005087	0.74	0.61	2.96	0.50
Reach18	1511.95	5 Year	DonPhaseII_Final_Baseline	0.39	229.57	229.88	229.80	229.91	0.005009	0.70	0.56	2.87	0.49
Reach18	1511.95	5 Year	DonPhaseII_Final_Proposed	0.39	229.57	229.88	229.80	229.91	0.005009	0.70	0.56	2.87	0.49
Reach18	1511.95	2 Year	DonPhaseII_Final_Baseline	0.32	229.57	229.86	229.77	229.88	0.005231	0.67	0.48	2.71	0.49
Reach18	1511.95	2 Year	DonPhaseII_Final_Proposed	0.32	229.57	229.86	229.77	229.88	0.005231	0.67	0.48	2.71	0.49
Reach18	1411.95	Regional	DonPhaseII_Final_Baseline	54.32	228.74	230.33	230.18	230.56	0.010480	3.90	38.13	39.94	1.00
Reach18	1411.95	Regional	DonPhaseII_Final_Proposed	54.32	228.74	230.33	230.18	230.56	0.010480	3.90	38.13	39.94	1.00
Reach18	1411.95	350 Year	DonPhaseII_Final_Baseline	5.90	228.74	229.52	229.52	229.63	0.007806	2.04	8.40	31.91	0.76
Reach18	1411.95	350 Year	DonPhaseII_Final_Proposed	5.90	228.74	229.52	229.52	229.63	0.007806	2.04	8.40	31.91	0.76
Reach18	1411.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.74	229.07	229.07	229.18	0.016468	1.58	0.91	4.81	0.95
Reach18	1411.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.74	229.07	229.07	229.18	0.016468	1.58	0.91	4.81	0.95
Reach18	1411.95	100 Year	DonPhaseII_Final_Baseline	0.79	228.74	229.03	229.03	229.13	0.017102	1.46	0.72	4.37	0.94
Reach18	1411.95	100 Year	DonPhaseII_Final_Proposed	0.79	228.74	229.03	229.03	229.13	0.017102	1.46	0.72	4.37	0.94
Reach18	1411.95	50 Year	DonPhaseII_Final_Baseline	0.61	228.74	228.99	228.99	229.08	0.018665	1.36	0.57	3.92	0.96
Reach18	1411.95	50 Year	DonPhaseII_Final_Proposed	0.61	228.74	228.99	228.99	229.08	0.018665	1.36	0.57	3.92	0.96
Reach18	1411.95	25 Year	DonPhaseII_Final_Baseline	0.51	228.74	228.97	228.97	229.05	0.019434	1.29	0.49	3.65	0.96
Reach18	1411.95	25 Year	DonPhaseII_Final_Proposed	0.51	228.74	228.97	228.97	229.05	0.019434	1.29	0.49	3.65	0.96
Reach18	1411.95	10 Year	DonPhaseII_Final_Baseline	0.44	228.74	228.95	228.95	229.03	0.020158	1.24	0.43	3.46	0.96
Reach18	1411.95	10 Year	DonPhaseII_Final_Proposed	0.44	228.74	228.95	228.95	229.03	0.020158	1.24	0.43	3.46	0.96
Reach18	1411.95	5 Year	DonPhaseII_Final_Baseline	0.39	228.74	228.94	228.94	229.01	0.020641	1.19	0.39	3.31	0.96
Reach18	1411.95	5 Year	DonPhaseII_Final_Proposed	0.39	228.74	228.94	228.94	229.01	0.020641	1.19	0.39	3.31	0.96
Reach18	1411.95	2 Year	DonPhaseII_Final_Baseline	0.32	228.74	228.93	228.92	228.99	0.018558	1.07	0.35	3.17	0.90
Reach18	1411.95	2 Year	DonPhaseII_Final_Proposed	0.32	228.74	228.93	228.92	228.99	0.018558	1.07	0.35	3.17	0.90
Reach18	1311.95	Regional	DonPhaseII_Final_Baseline	54.32	228.31	229.97		230.04	0.002971	2.09	58.68	45.49	0.53
Reach18	1311.95	Regional	DonPhaseII_Final_Proposed	54.32	228.31	229.97		230.04	0.002971	2.09	58.68	45.49	0.53
Reach18	1311.95	350 Year	DonPhaseII_Final_Baseline	5.90	228.31	228.98		229.00	0.001834	0.85	16.23	40.10	0.36
Reach18	1311.95	350 Year	DonPhaseII_Final_Proposed	5.90	228.31	228.98		229.00	0.001834	0.85	16.23	40.10	0.36
Reach18	1311.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.31	228.68		228.68	0.001592	0.49	4.88	33.11	0.29
Reach18	1311.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.31	228.68		228.68	0.001592	0.49	4.88	33.11	0.29
Reach18	1311.95	100 Year	DonPhaseII_Final_Baseline	0.79	228.31	228.65		228.66	0.001480	0.44	4.09	32.64	0.28
Reach18	1311.95	100 Year	DonPhaseII_Final_Proposed	0.79	228.31	228.65		228.66	0.001480	0.44	4.09	32.64	0.28
Reach18	1311.95	50 Year	DonPhaseII_Final_Baseline	0.61	228.31	228.62		228.63	0.001557	0.42	3.17	28.51	0.28
Reach18	1311.95	50 Year	DonPhaseII_Final_Proposed	0.61	228.31	228.62		228.63	0.001557	0.42	3.17	28.51	0.28
Reach18	1311.95	25 Year	DonPhaseII_Final_Baseline	0.51	228.31	228.60		228.61	0.001599	0.40	2.69	27.04	0.28
Reach18	1311.95	25 Year	DonPhaseII_Final_Proposed	0.51	228.31	228.60		228.61	0.001599	0.40	2.69	27.04	0.28
Reach18	1311.95	10 Year	DonPhaseII_Final_Baseline	0.44	228.31	228.59		228.60	0.001611	0.39	2.35	26.18	0.28
Reach18	1311.95	10 Year	DonPhaseII_Final_Proposed	0.44	228.31	228.59		228.60	0.001611	0.39	2.35	26.18	0.28
Reach18	1311.95	5 Year	DonPhaseII_Final_Baseline	0.39	228.31	228.58		228.59	0.001663	0.38	2.05	24.52	0.28
Reach18	1311.95	5 Year	DonPhaseII_Final_Proposed	0.39	228.31	228.58		228.59	0.001663	0.38	2.05	24.52	0.28
Reach18	1311.95	2 Year	DonPhaseII_Final_Baseline	0.32	228.31	228.56		228.57	0.001733	0.36	1.67	22.28	0.28
Reach18	1311.95	2 Year	DonPhaseII_Final_Proposed	0.32	228.31	228.56		228.57	0.001733	0.36	1.67	22.28	0.28
Reach18	1211.95	Regional	DonPhaseII_Final_Baseline	54.32	228.10	229.40	229.15	229.56	0.010947	2.71	39.97	56.48	0.79
Reach18	1211.95	Regional	DonPhaseII_Final_Proposed	54.32	228.10	229.40	229.15	229.56	0.010947	2.71	39.97	56.48	0.79
Reach18	1211.95	350 Year	DonPhaseII_Final_Baseline	5.90	228.10	228.66	228.52	228.69	0.006713	1.17	9.84	32.52	0.55
Reach18	1211.95	350 Year	DonPhaseII_Final_Proposed	5.90	228.10	228.66	228.52	228.69	0.006713	1.17	9.84	32.52	0.55
Reach18	1211.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.10	228.41	228.35	228.43	0.004967	0.67	2.71	22.97	0.46

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1211.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.10	228.41	228.35	228.43	0.004967	0.67	2.71	22.97	0.46
Reach18	1211.95	100 Year	DonPhaseII_Final_Baseline	0.79	228.10	228.40	228.33	228.42	0.004760	0.64	1.77	13.98	0.45
Reach18	1211.95	100 Year	DonPhaseII_Final_Proposed	0.79	228.10	228.40	228.33	228.42	0.004760	0.64	1.77	13.98	0.45
Reach18	1211.95	50 Year	DonPhaseII_Final_Baseline	0.61	228.10	228.38	228.31	228.39	0.004351	0.57	1.46	11.39	0.43
Reach18	1211.95	50 Year	DonPhaseII_Final_Proposed	0.61	228.10	228.38	228.31	228.39	0.004351	0.57	1.46	11.39	0.43
Reach18	1211.95	25 Year	DonPhaseII_Final_Baseline	0.51	228.10	228.36	228.29	228.37	0.004127	0.54	1.29	9.91	0.41
Reach18	1211.95	25 Year	DonPhaseII_Final_Proposed	0.51	228.10	228.36	228.29	228.37	0.004127	0.54	1.29	9.91	0.41
Reach18	1211.95	10 Year	DonPhaseII_Final_Baseline	0.44	228.10	228.35	228.28	228.36	0.003916	0.51	1.17	9.61	0.40
Reach18	1211.95	10 Year	DonPhaseII_Final_Proposed	0.44	228.10	228.35	228.28	228.36	0.003916	0.51	1.17	9.61	0.40
Reach18	1211.95	5 Year	DonPhaseII_Final_Baseline	0.39	228.10	228.34	228.27	228.35	0.003791	0.49	1.07	9.42	0.39
Reach18	1211.95	5 Year	DonPhaseII_Final_Proposed	0.39	228.10	228.34	228.27	228.35	0.003791	0.49	1.07	9.42	0.39
Reach18	1211.95	2 Year	DonPhaseII_Final_Baseline	0.32	228.10	228.32	228.26	228.33	0.003568	0.45	0.93	9.14	0.38
Reach18	1211.95	2 Year	DonPhaseII_Final_Proposed	0.32	228.10	228.32	228.26	228.33	0.003568	0.45	0.93	9.14	0.38
Reach18	1166	Regional	DonPhaseII_Final_Baseline	54.32	228.00	229.10	228.74	229.18	0.006674	2.38	57.81	80.21	0.75
Reach18	1166	Regional	DonPhaseII_Final_Proposed	54.32	228.00	229.10	228.74	229.18	0.006674	2.38	57.81	80.21	0.75
Reach18	1166	350 Year	DonPhaseII_Final_Baseline	5.90	228.00	228.39	228.23	228.41	0.006197	1.07	12.31	48.52	0.60
Reach18	1166	350 Year	DonPhaseII_Final_Proposed	5.90	228.00	228.39	228.23	228.41	0.006197	1.07	12.31	48.52	0.60
Reach18	1166	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.00	228.17	228.10	228.18	0.006699	0.54	3.73	33.17	0.52
Reach18	1166	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.00	228.17	228.10	228.18	0.006699	0.54	3.73	33.17	0.52
Reach18	1166	100 Year	DonPhaseII_Final_Baseline	0.79	228.00	228.15	228.09	228.16	0.007324	0.49	3.09	32.99	0.52
Reach18	1166	100 Year	DonPhaseII_Final_Proposed	0.79	228.00	228.15	228.09	228.16	0.007324	0.49	3.09	32.99	0.52
Reach18	1166	50 Year	DonPhaseII_Final_Baseline	0.61	228.00	228.14	228.08	228.14	0.007794	0.44	2.49	31.52	0.52
Reach18	1166	50 Year	DonPhaseII_Final_Proposed	0.61	228.00	228.14	228.08	228.14	0.007794	0.44	2.49	31.52	0.52
Reach18	1166	25 Year	DonPhaseII_Final_Baseline	0.51	228.00	228.12	228.07	228.13	0.008156	0.40	2.13	28.92	0.52
Reach18	1166	25 Year	DonPhaseII_Final_Proposed	0.51	228.00	228.12	228.07	228.13	0.008156	0.40	2.13	28.92	0.52
Reach18	1166	10 Year	DonPhaseII_Final_Baseline	0.44	228.00	228.11	228.06	228.12	0.008597	0.38	1.86	26.73	0.52
Reach18	1166	10 Year	DonPhaseII_Final_Proposed	0.44	228.00	228.11	228.06	228.12	0.008597	0.38	1.86	26.73	0.52
Reach18	1166	5 Year	DonPhaseII_Final_Baseline	0.39	228.00	228.11	228.06	228.11	0.008796	0.37	1.68	25.32	0.52
Reach18	1166	5 Year	DonPhaseII_Final_Proposed	0.39	228.00	228.11	228.06	228.11	0.008796	0.37	1.68	25.32	0.52
Reach18	1166	2 Year	DonPhaseII_Final_Baseline	0.32	228.00	228.10	228.05	228.10	0.009365	0.35	1.42	23.46	0.53
Reach18	1166	2 Year	DonPhaseII_Final_Proposed	0.32	228.00	228.10	228.05	228.10	0.009365	0.35	1.42	23.46	0.53
Reach18	1128	Regional	DonPhaseII_Final_Baseline	54.32	227.90	228.93		229.00	0.006099	2.24	59.17	74.98	0.71
Reach18	1128	Regional	DonPhaseII_Final_Proposed	54.32	227.90	228.93		229.00	0.006099	2.24	59.17	74.98	0.71
Reach18	1128	350 Year	DonPhaseII_Final_Baseline	5.90	227.90	228.29		228.30	0.002654	0.75	18.01	58.02	0.40
Reach18	1128	350 Year	DonPhaseII_Final_Proposed	5.90	227.90	228.29		228.30	0.002654	0.75	18.01	58.02	0.40
Reach18	1128	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	227.90	228.10		228.10	0.001496	0.34	7.13	55.76	0.26
Reach18	1128	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	227.90	228.10		228.10	0.001496	0.34	7.13	55.76	0.26
Reach18	1128	100 Year	DonPhaseII_Final_Baseline	0.79	227.90	228.08		228.08	0.001310	0.30	6.26	55.15	0.24
Reach18	1128	100 Year	DonPhaseII_Final_Proposed	0.79	227.90	228.08		228.08	0.001310	0.30	6.26	55.15	0.24
Reach18	1128	50 Year	DonPhaseII_Final_Baseline	0.61	227.90	228.07		228.07	0.001206	0.27	5.42	54.53	0.23
Reach18	1128	50 Year	DonPhaseII_Final_Proposed	0.61	227.90	228.07		228.07	0.001206	0.27	5.42	54.53	0.23
Reach18	1128	25 Year	DonPhaseII_Final_Baseline	0.51	227.90	228.06		228.06	0.001167	0.25	4.83	53.49	0.22
Reach18	1128	25 Year	DonPhaseII_Final_Proposed	0.51	227.90	228.06		228.06	0.001167	0.25	4.83	53.49	0.22
Reach18	1128	10 Year	DonPhaseII_Final_Baseline	0.44	227.90	228.05		228.05	0.001047	0.23	4.53	52.40	0.21
Reach18	1128	10 Year	DonPhaseII_Final_Proposed	0.44	227.90	228.05		228.05	0.001047	0.23	4.53	52.40	0.21
Reach18	1128	5 Year	DonPhaseII_Final_Baseline	0.39	227.90	228.04		228.05	0.001020	0.22	4.21	51.96	0.20
Reach18	1128	5 Year	DonPhaseII_Final_Proposed	0.39	227.90	228.04		228.05	0.001020	0.22	4.21	51.96	0.20

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1128	2 Year	DonPhaseII_Final_Baseline	0.32	227.90	228.04		228.04	0.000947	0.20	3.76	51.50	0.19
Reach18	1128	2 Year	DonPhaseII_Final_Proposed	0.32	227.90	228.04		228.04	0.000947	0.20	3.76	51.50	0.19
Reach18	1109.25	Regional	DonPhaseII_Final_Baseline	54.32	227.92	228.52	228.52	228.76	0.039569	3.99	31.18	61.82	1.66
Reach18	1109.25	Regional	DonPhaseII_Final_Proposed	54.32	227.92	228.52	228.52	228.76	0.039569	3.99	31.18	61.82	1.66
Reach18	1109.25	350 Year	DonPhaseII_Final_Baseline	5.90	227.92	228.10	228.10	228.17	0.053334	2.00	6.63	47.73	1.56
Reach18	1109.25	350 Year	DonPhaseII_Final_Proposed	5.90	227.92	228.10	228.10	228.17	0.053334	2.00	6.63	47.73	1.56
Reach18	1109.25	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	227.92	228.00	228.00	228.02	0.056684	1.11	2.08	41.23	1.38
Reach18	1109.25	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	227.92	228.00	228.00	228.02	0.056684	1.11	2.08	41.23	1.38
Reach18	1109.25	100 Year	DonPhaseII_Final_Baseline	0.79	227.92	227.99	227.99	228.01	0.056084	1.01	1.75	40.25	1.34
Reach18	1109.25	100 Year	DonPhaseII_Final_Proposed	0.79	227.92	227.99	227.99	228.01	0.056084	1.01	1.75	40.25	1.34
Reach18	1109.25	50 Year	DonPhaseII_Final_Baseline	0.61	227.92	227.98	227.98	228.00	0.065952	0.98	1.39	39.15	1.42
Reach18	1109.25	50 Year	DonPhaseII_Final_Proposed	0.61	227.92	227.98	227.98	228.00	0.065952	0.98	1.39	39.15	1.42
Reach18	1109.25	25 Year	DonPhaseII_Final_Baseline	0.51	227.92	227.98	227.98	227.99	0.060442	0.90	1.26	38.36	1.34
Reach18	1109.25	25 Year	DonPhaseII_Final_Proposed	0.51	227.92	227.98	227.98	227.99	0.060442	0.90	1.26	38.36	1.34
Reach18	1109.25	10 Year	DonPhaseII_Final_Baseline	0.44	227.92	227.97	227.97	227.99	0.071562	0.90	1.07	36.95	1.43
Reach18	1109.25	10 Year	DonPhaseII_Final_Proposed	0.44	227.92	227.97	227.97	227.99	0.071562	0.90	1.07	36.95	1.43
Reach18	1109.25	5 Year	DonPhaseII_Final_Baseline	0.39	227.92	227.97	227.97	227.99	0.060642	0.82	1.04	36.74	1.31
Reach18	1109.25	5 Year	DonPhaseII_Final_Proposed	0.39	227.92	227.97	227.97	227.99	0.060642	0.82	1.04	36.74	1.31
Reach18	1109.25	2 Year	DonPhaseII_Final_Baseline	0.32	227.92	227.97	227.97	227.98	0.062266	0.77	0.89	35.62	1.31
Reach18	1109.25	2 Year	DonPhaseII_Final_Proposed	0.32	227.92	227.97	227.97	227.98	0.062266	0.77	0.89	35.62	1.31
Reach18	1067.93	Regional	DonPhaseII_Final_Baseline	54.32	225.28	226.99		227.19	0.004392	2.38	37.11	45.94	0.64
Reach18	1067.93	Regional	DonPhaseII_Final_Proposed	54.32	225.28	226.99		227.19	0.004392	2.38	37.11	45.94	0.64
Reach18	1067.93	350 Year	DonPhaseII_Final_Baseline	5.90	225.28	225.87	225.87	226.04	0.017148	1.85	3.24	9.89	0.99
Reach18	1067.93	350 Year	DonPhaseII_Final_Proposed	5.90	225.28	225.87	225.87	226.04	0.017148	1.85	3.24	9.89	0.99
Reach18	1067.93	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	225.28	225.53	225.53	225.61	0.023213	1.25	0.82	5.25	1.01
Reach18	1067.93	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	225.28	225.53	225.53	225.61	0.023213	1.25	0.82	5.25	1.01
Reach18	1067.93	100 Year	DonPhaseII_Final_Baseline	0.79	225.28	225.50	225.50	225.57	0.024263	1.17	0.68	4.99	1.01
Reach18	1067.93	100 Year	DonPhaseII_Final_Proposed	0.79	225.28	225.50	225.50	225.57	0.024263	1.17	0.68	4.99	1.01
Reach18	1067.93	50 Year	DonPhaseII_Final_Baseline	0.61	225.28	225.48	225.48	225.54	0.025036	1.10	0.56	4.60	1.01
Reach18	1067.93	50 Year	DonPhaseII_Final_Proposed	0.61	225.28	225.48	225.48	225.54	0.025036	1.10	0.56	4.60	1.01
Reach18	1067.93	25 Year	DonPhaseII_Final_Baseline	0.51	225.28	225.46	225.46	225.52	0.025799	1.05	0.49	4.37	1.01
Reach18	1067.93	25 Year	DonPhaseII_Final_Proposed	0.51	225.28	225.46	225.46	225.52	0.025799	1.05	0.49	4.37	1.01
Reach18	1067.93	10 Year	DonPhaseII_Final_Baseline	0.44	225.28	225.45	225.45	225.50	0.025911	1.01	0.44	4.21	1.00
Reach18	1067.93	10 Year	DonPhaseII_Final_Proposed	0.44	225.28	225.45	225.45	225.50	0.025911	1.01	0.44	4.21	1.00
Reach18	1067.93	5 Year	DonPhaseII_Final_Baseline	0.39	225.28	225.44	225.44	225.49	0.026979	0.98	0.40	4.08	1.01
Reach18	1067.93	5 Year	DonPhaseII_Final_Proposed	0.39	225.28	225.44	225.44	225.49	0.026979	0.98	0.40	4.08	1.01
Reach18	1067.93	2 Year	DonPhaseII_Final_Baseline	0.32	225.28	225.44	225.43	225.47	0.021227	0.85	0.38	4.01	0.89
Reach18	1067.93	2 Year	DonPhaseII_Final_Proposed	0.32	225.28	225.44	225.43	225.47	0.021227	0.85	0.38	4.01	0.89
Reach18	1009.29	Regional	DonPhaseII_Final_Baseline	54.32	224.63	226.34	226.34	226.80	0.009532	3.86	29.75	31.57	0.97
Reach18	1009.29	Regional	DonPhaseII_Final_Proposed	54.32	224.63	226.34	226.34	226.80	0.009532	3.86	29.75	31.57	0.97
Reach18	1009.29	350 Year	DonPhaseII_Final_Baseline	5.90	224.63	225.40	225.13	225.45	0.002770	1.18	8.16	15.15	0.45
Reach18	1009.29	350 Year	DonPhaseII_Final_Proposed	5.90	224.63	225.40	225.13	225.45	0.002770	1.18	8.16	15.15	0.45
Reach18	1009.29	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	224.63	224.98	224.86	224.99	0.002580	0.61	2.43	11.69	0.37
Reach18	1009.29	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	224.63	224.98	224.86	224.99	0.002580	0.61	2.43	11.69	0.37
Reach18	1009.29	100 Year	DonPhaseII_Final_Baseline	0.79	224.63	224.93	224.84	224.94	0.003045	0.58	1.90	11.20	0.39
Reach18	1009.29	100 Year	DonPhaseII_Final_Proposed	0.79	224.63	224.93	224.84	224.94	0.003045	0.58	1.90	11.20	0.39

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1009.29	50 Year	DonPhaseII_Final_Baseline	0.61	224.63	224.89	224.82	224.91	0.003601	0.56	1.48	10.77	0.41
Reach18	1009.29	50 Year	DonPhaseII_Final_Proposed	0.61	224.63	224.89	224.82	224.91	0.003601	0.56	1.48	10.77	0.41
Reach18	1009.29	25 Year	DonPhaseII_Final_Baseline	0.51	224.63	224.87	224.81	224.88	0.004250	0.56	1.22	10.50	0.44
Reach18	1009.29	25 Year	DonPhaseII_Final_Proposed	0.51	224.63	224.87	224.81	224.88	0.004250	0.56	1.22	10.50	0.44
Reach18	1009.29	10 Year	DonPhaseII_Final_Baseline	0.44	224.63	224.85	224.79	224.86	0.004743	0.55	1.04	10.21	0.46
Reach18	1009.29	10 Year	DonPhaseII_Final_Proposed	0.44	224.63	224.85	224.79	224.86	0.004743	0.55	1.04	10.21	0.46
Reach18	1009.29	5 Year	DonPhaseII_Final_Baseline	0.39	224.63	224.84	224.79	224.85	0.005255	0.54	0.91	9.82	0.47
Reach18	1009.29	5 Year	DonPhaseII_Final_Proposed	0.39	224.63	224.84	224.79	224.85	0.005255	0.54	0.91	9.82	0.47
Reach18	1009.29	2 Year	DonPhaseII_Final_Baseline	0.32	224.63	224.81	224.77	224.83	0.006602	0.55	0.69	8.59	0.52
Reach18	1009.29	2 Year	DonPhaseII_Final_Proposed	0.32	224.63	224.81	224.77	224.83	0.006602	0.55	0.69	8.59	0.52
Reach18	911.31	Regional	DonPhaseII_Final_Baseline	54.32	224.10	225.69		225.82	0.006381	3.00	56.15	74.11	0.78
Reach18	911.31	Regional	DonPhaseII_Final_Proposed	54.32	224.10	225.69		225.82	0.006381	3.00	56.15	74.11	0.78
Reach18	911.31	350 Year	DonPhaseII_Final_Baseline	5.90	224.10	224.97	224.97	225.09	0.005795	1.86	9.00	51.66	0.66
Reach18	911.31	350 Year	DonPhaseII_Final_Proposed	5.90	224.10	224.97	224.97	225.09	0.005795	1.86	9.00	51.66	0.66
Reach18	911.31	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	224.10	224.46	224.42	224.54	0.011042	1.29	0.91	4.15	0.77
Reach18	911.31	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	224.10	224.46	224.42	224.54	0.011042	1.29	0.91	4.15	0.77
Reach18	911.31	100 Year	DonPhaseII_Final_Baseline	0.79	224.10	224.44	224.38	224.50	0.007872	1.05	0.85	4.04	0.65
Reach18	911.31	100 Year	DonPhaseII_Final_Proposed	0.79	224.10	224.44	224.38	224.50	0.007872	1.05	0.85	4.04	0.65
Reach18	911.31	50 Year	DonPhaseII_Final_Baseline	0.61	224.10	224.42	224.35	224.46	0.005983	0.87	0.78	3.91	0.56
Reach18	911.31	50 Year	DonPhaseII_Final_Proposed	0.61	224.10	224.42	224.35	224.46	0.005983	0.87	0.78	3.91	0.56
Reach18	911.31	25 Year	DonPhaseII_Final_Baseline	0.51	224.10	224.41	224.33	224.44	0.004859	0.77	0.74	3.83	0.50
Reach18	911.31	25 Year	DonPhaseII_Final_Proposed	0.51	224.10	224.41	224.33	224.44	0.004859	0.77	0.74	3.83	0.50
Reach18	911.31	10 Year	DonPhaseII_Final_Baseline	0.44	224.10	224.40	224.31	224.43	0.004341	0.70	0.69	3.74	0.47
Reach18	911.31	10 Year	DonPhaseII_Final_Proposed	0.44	224.10	224.40	224.31	224.43	0.004341	0.70	0.69	3.74	0.47
Reach18	911.31	5 Year	DonPhaseII_Final_Baseline	0.39	224.10	224.39	224.30	224.41	0.003866	0.64	0.66	3.68	0.44
Reach18	911.31	5 Year	DonPhaseII_Final_Proposed	0.39	224.10	224.39	224.30	224.41	0.003866	0.64	0.66	3.68	0.44
Reach18	911.31	2 Year	DonPhaseII_Final_Baseline	0.32	224.10	224.38	224.29	224.40	0.003173	0.56	0.61	3.58	0.39
Reach18	911.31	2 Year	DonPhaseII_Final_Proposed	0.32	224.10	224.38	224.29	224.40	0.003173	0.56	0.61	3.58	0.39
Reach18	821.26	Regional	DonPhaseII_Final_Baseline	54.32	223.67	225.52		225.56	0.001658	1.73	91.81	86.16	0.41
Reach18	821.26	Regional	DonPhaseII_Final_Proposed	54.32	223.67	225.52		225.56	0.001658	1.73	91.81	86.16	0.41
Reach18	821.26	350 Year	DonPhaseII_Final_Baseline	5.90	223.67	224.48		224.50	0.001866	1.04	15.18	44.83	0.38
Reach18	821.26	350 Year	DonPhaseII_Final_Proposed	5.90	223.67	224.48		224.50	0.001866	1.04	15.18	44.83	0.38
Reach18	821.26	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.67	224.01		224.02	0.003298	0.74	2.72	15.07	0.43
Reach18	821.26	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.67	224.01		224.02	0.003298	0.74	2.72	15.07	0.43
Reach18	821.26	100 Year	DonPhaseII_Final_Baseline	0.79	223.67	223.96		223.98	0.004241	0.75	2.01	14.60	0.47
Reach18	821.26	100 Year	DonPhaseII_Final_Proposed	0.79	223.67	223.96		223.98	0.004241	0.75	2.01	14.60	0.47
Reach18	821.26	50 Year	DonPhaseII_Final_Baseline	0.61	223.67	223.91		223.93	0.005638	0.75	1.39	12.24	0.53
Reach18	821.26	50 Year	DonPhaseII_Final_Proposed	0.61	223.67	223.91		223.93	0.005638	0.75	1.39	12.24	0.53
Reach18	821.26	25 Year	DonPhaseII_Final_Baseline	0.51	223.67	223.88		223.91	0.007357	0.78	1.05	10.33	0.59
Reach18	821.26	25 Year	DonPhaseII_Final_Proposed	0.51	223.67	223.88		223.91	0.007357	0.78	1.05	10.33	0.59
Reach18	821.26	10 Year	DonPhaseII_Final_Baseline	0.44	223.67	223.86		223.89	0.008730	0.78	0.85	8.83	0.63
Reach18	821.26	10 Year	DonPhaseII_Final_Proposed	0.44	223.67	223.86		223.89	0.008730	0.78	0.85	8.83	0.63
Reach18	821.26	5 Year	DonPhaseII_Final_Baseline	0.39	223.67	223.84		223.87	0.010620	0.79	0.70	7.54	0.68
Reach18	821.26	5 Year	DonPhaseII_Final_Proposed	0.39	223.67	223.84		223.87	0.010620	0.79	0.70	7.54	0.68
Reach18	821.26	2 Year	DonPhaseII_Final_Baseline	0.32	223.67	223.82		223.85	0.015765	0.84	0.52	6.26	0.79
Reach18	821.26	2 Year	DonPhaseII_Final_Proposed	0.32	223.67	223.82		223.85	0.015765	0.84	0.52	6.26	0.79

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	712.52	Regional	DonPhaseII_Final_Baseline	54.32	223.29	225.06	224.93	225.28	0.007155	3.49	43.70	46.83	0.84
Reach18	712.52	Regional	DonPhaseII_Final_Proposed	54.32	223.29	225.06	224.93	225.28	0.007155	3.49	43.70	46.83	0.84
Reach18	712.52	350 Year	DonPhaseII_Final_Baseline	5.90	223.29	224.15	224.08	224.24	0.004479	1.69	8.52	27.29	0.59
Reach18	712.52	350 Year	DonPhaseII_Final_Proposed	5.90	223.29	224.15	224.08	224.24	0.004479	1.69	8.52	27.29	0.59
Reach18	712.52	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.29	223.81	223.56	223.83	0.001319	0.65	2.29	6.92	0.29
Reach18	712.52	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.29	223.81	223.56	223.83	0.001319	0.65	2.29	6.92	0.29
Reach18	712.52	100 Year	DonPhaseII_Final_Baseline	0.79	223.29	223.77	223.52	223.78	0.001124	0.56	1.98	6.43	0.27
Reach18	712.52	100 Year	DonPhaseII_Final_Proposed	0.79	223.29	223.77	223.52	223.78	0.001124	0.56	1.98	6.43	0.27
Reach18	712.52	50 Year	DonPhaseII_Final_Baseline	0.61	223.29	223.72	223.49	223.73	0.000991	0.49	1.69	5.95	0.25
Reach18	712.52	50 Year	DonPhaseII_Final_Proposed	0.61	223.29	223.72	223.49	223.73	0.000991	0.49	1.69	5.95	0.25
Reach18	712.52	25 Year	DonPhaseII_Final_Baseline	0.51	223.29	223.69	223.47	223.70	0.000908	0.44	1.52	5.64	0.23
Reach18	712.52	25 Year	DonPhaseII_Final_Proposed	0.51	223.29	223.69	223.47	223.70	0.000908	0.44	1.52	5.64	0.23
Reach18	712.52	10 Year	DonPhaseII_Final_Baseline	0.44	223.29	223.67	223.45	223.68	0.000856	0.41	1.39	5.39	0.22
Reach18	712.52	10 Year	DonPhaseII_Final_Proposed	0.44	223.29	223.67	223.45	223.68	0.000856	0.41	1.39	5.39	0.22
Reach18	712.52	5 Year	DonPhaseII_Final_Baseline	0.39	223.29	223.65	223.44	223.66	0.000819	0.39	1.29	5.22	0.22
Reach18	712.52	5 Year	DonPhaseII_Final_Proposed	0.39	223.29	223.65	223.44	223.66	0.000819	0.39	1.29	5.22	0.22
Reach18	712.52	2 Year	DonPhaseII_Final_Baseline	0.32	223.29	223.62	223.43	223.63	0.000751	0.35	1.15	5.01	0.20
Reach18	712.52	2 Year	DonPhaseII_Final_Proposed	0.32	223.29	223.62	223.43	223.63	0.000751	0.35	1.15	5.01	0.20
Reach18	600	Regional	DonPhaseII_Final_Baseline	54.32	223.37	224.71		224.77	0.003814	2.09	60.29	57.88	0.59
Reach18	600	Regional	DonPhaseII_Final_Proposed	54.32	223.37	224.71		224.77	0.003814	2.09	60.29	57.88	0.59
Reach18	600	350 Year	DonPhaseII_Final_Baseline	5.90	223.37	223.72		223.73	0.005771	0.98	11.60	34.34	0.57
Reach18	600	350 Year	DonPhaseII_Final_Proposed	5.90	223.37	223.72		223.73	0.005771	0.98	11.60	34.34	0.57
Reach18	600	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.37	223.41	223.40	223.43	0.070518	0.47	1.71	26.17	1.21
Reach18	600	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.37	223.41	223.40	223.43	0.070518	0.47	1.71	26.17	1.21
Reach18	600	100 Year	DonPhaseII_Final_Baseline	0.79	223.37	223.38	223.38	223.41	0.115750	0.35	1.08	19.63	1.35
Reach18	600	100 Year	DonPhaseII_Final_Proposed	0.79	223.37	223.38	223.38	223.41	0.115750	0.35	1.08	19.63	1.35
Reach18	600	50 Year	DonPhaseII_Final_Baseline	0.61	223.37	223.37	223.37	223.40	0.131344		0.83	14.30	0.00
Reach18	600	50 Year	DonPhaseII_Final_Proposed	0.61	223.37	223.37	223.37	223.40	0.131344		0.83	14.30	0.00
Reach18	600	25 Year	DonPhaseII_Final_Baseline	0.51	223.37	223.36	223.36	223.39	0.151238		0.68	13.06	0.00
Reach18	600	25 Year	DonPhaseII_Final_Proposed	0.51	223.37	223.36	223.36	223.39	0.151238		0.68	13.06	0.00
Reach18	600	10 Year	DonPhaseII_Final_Baseline	0.44	223.37	223.35	223.35	223.38	0.141617		0.62	12.52	0.00
Reach18	600	10 Year	DonPhaseII_Final_Proposed	0.44	223.37	223.35	223.35	223.38	0.141617		0.62	12.52	0.00
Reach18	600	5 Year	DonPhaseII_Final_Baseline	0.39	223.37	223.35	223.35	223.37	0.132150		0.58	12.13	0.00
Reach18	600	5 Year	DonPhaseII_Final_Proposed	0.39	223.37	223.35	223.35	223.37	0.132150		0.58	12.13	0.00
Reach18	600	2 Year	DonPhaseII_Final_Baseline	0.32	223.37	223.34	223.34	223.37	0.139209		0.48	10.59	0.00
Reach18	600	2 Year	DonPhaseII_Final_Proposed	0.32	223.37	223.34	223.34	223.37	0.139209		0.48	10.59	0.00
Reach18	500	Regional	DonPhaseII_Final_Baseline	54.32	222.93	224.45		224.50	0.002145	1.73	72.53	63.69	0.45
Reach18	500	Regional	DonPhaseII_Final_Proposed	54.32	222.93	224.45		224.50	0.002145	1.73	72.53	63.69	0.45
Reach18	500	350 Year	DonPhaseII_Final_Baseline	5.90	222.93	223.52		223.53	0.001071	0.64	20.66	48.45	0.27
Reach18	500	350 Year	DonPhaseII_Final_Proposed	5.90	222.93	223.52		223.53	0.001071	0.64	20.66	48.45	0.27
Reach18	500	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	222.93	223.24		223.24	0.000576	0.30	7.91	41.88	0.18
Reach18	500	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	222.93	223.24		223.24	0.000576	0.30	7.91	41.88	0.18
Reach18	500	100 Year	DonPhaseII_Final_Baseline	0.79	222.93	223.21		223.21	0.000523	0.26	6.83	41.18	0.17
Reach18	500	100 Year	DonPhaseII_Final_Proposed	0.79	222.93	223.21		223.21	0.000523	0.26	6.83	41.18	0.17
Reach18	500	50 Year	DonPhaseII_Final_Baseline	0.61	222.93	223.19		223.19	0.000466	0.24	5.93	40.40	0.15
Reach18	500	50 Year	DonPhaseII_Final_Proposed	0.61	222.93	223.19		223.19	0.000466	0.24	5.93	40.40	0.15
Reach18	500	25 Year	DonPhaseII_Final_Baseline	0.51	222.93	223.18		223.18	0.000432	0.22	5.36	39.86	0.15

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	500	25 Year	DonPhaseII_Final_Proposed	0.51	222.93	223.18		223.18	0.000432	0.22	5.36	39.86	0.15
Reach18	500	10 Year	DonPhaseII_Final_Baseline	0.44	222.93	223.16		223.17	0.000405	0.20	4.93	39.39	0.14
Reach18	500	10 Year	DonPhaseII_Final_Proposed	0.44	222.93	223.16		223.17	0.000405	0.20	4.93	39.39	0.14
Reach18	500	5 Year	DonPhaseII_Final_Baseline	0.39	222.93	223.16		223.16	0.000390	0.19	4.58	39.00	0.14
Reach18	500	5 Year	DonPhaseII_Final_Proposed	0.39	222.93	223.16		223.16	0.000390	0.19	4.58	39.00	0.14
Reach18	500	2 Year	DonPhaseII_Final_Baseline	0.32	222.93	223.14		223.14	0.000358	0.18	4.08	38.27	0.13
Reach18	500	2 Year	DonPhaseII_Final_Proposed	0.32	222.93	223.14		223.14	0.000358	0.18	4.08	38.27	0.13
Reach18	400	Regional	DonPhaseII_Final_Baseline	54.32	222.88	224.33		224.37	0.000886	1.03	84.88	71.23	0.28
Reach18	400	Regional	DonPhaseII_Final_Proposed	54.32	222.88	224.33		224.37	0.000886	1.03	84.88	71.23	0.28
Reach18	400	350 Year	DonPhaseII_Final_Baseline	5.90	222.88	223.47		223.47	0.000404	0.34	26.45	63.23	0.16
Reach18	400	350 Year	DonPhaseII_Final_Proposed	5.90	222.88	223.47		223.47	0.000404	0.34	26.45	63.23	0.16
Reach18	400	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	222.88	223.21		223.21	0.000213	0.14	10.63	58.78	0.10
Reach18	400	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	222.88	223.21		223.21	0.000213	0.14	10.63	58.78	0.10
Reach18	400	100 Year	DonPhaseII_Final_Baseline	0.79	222.88	223.18		223.18	0.000194	0.13	9.26	58.35	0.10
Reach18	400	100 Year	DonPhaseII_Final_Proposed	0.79	222.88	223.18		223.18	0.000194	0.13	9.26	58.35	0.10
Reach18	400	50 Year	DonPhaseII_Final_Baseline	0.61	222.88	223.16		223.17	0.000171	0.11	8.16	58.01	0.09
Reach18	400	50 Year	DonPhaseII_Final_Proposed	0.61	222.88	223.16		223.17	0.000171	0.11	8.16	58.01	0.09
Reach18	400	25 Year	DonPhaseII_Final_Baseline	0.51	222.88	223.15		223.15	0.000157	0.10	7.45	57.47	0.08
Reach18	400	25 Year	DonPhaseII_Final_Proposed	0.51	222.88	223.15		223.15	0.000157	0.10	7.45	57.47	0.08
Reach18	400	10 Year	DonPhaseII_Final_Baseline	0.44	222.88	223.14		223.14	0.000146	0.09	6.92	56.91	0.08
Reach18	400	10 Year	DonPhaseII_Final_Proposed	0.44	222.88	223.14		223.14	0.000146	0.09	6.92	56.91	0.08
Reach18	400	5 Year	DonPhaseII_Final_Baseline	0.39	222.88	223.13		223.14	0.000143	0.09	6.44	56.38	0.08
Reach18	400	5 Year	DonPhaseII_Final_Proposed	0.39	222.88	223.13		223.14	0.000143	0.09	6.44	56.38	0.08
Reach18	400	2 Year	DonPhaseII_Final_Baseline	0.32	222.88	223.12		223.12	0.000133	0.08	5.80	55.74	0.07
Reach18	400	2 Year	DonPhaseII_Final_Proposed	0.32	222.88	223.12		223.12	0.000133	0.08	5.80	55.74	0.07
Reach18	300	Regional	DonPhaseII_Final_Baseline	54.32	223.02	224.16		224.24	0.002035	1.38	51.63	53.64	0.42
Reach18	300	Regional	DonPhaseII_Final_Proposed	54.32	223.02	224.16		224.24	0.002035	1.38	51.63	53.64	0.42
Reach18	300	350 Year	DonPhaseII_Final_Baseline	5.90	223.02	223.39		223.40	0.001336	0.51	14.09	44.12	0.28
Reach18	300	350 Year	DonPhaseII_Final_Proposed	5.90	223.02	223.39		223.40	0.001336	0.51	14.09	44.12	0.28
Reach18	300	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.02	223.16		223.16	0.002020	0.28	4.11	39.06	0.28
Reach18	300	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.02	223.16		223.16	0.002020	0.28	4.11	39.06	0.28
Reach18	300	100 Year	DonPhaseII_Final_Baseline	0.79	223.02	223.14		223.14	0.002391	0.26	3.32	38.11	0.29
Reach18	300	100 Year	DonPhaseII_Final_Proposed	0.79	223.02	223.14		223.14	0.002391	0.26	3.32	38.11	0.29
Reach18	300	50 Year	DonPhaseII_Final_Baseline	0.61	223.02	223.12		223.12	0.003074	0.25	2.63	36.77	0.32
Reach18	300	50 Year	DonPhaseII_Final_Proposed	0.61	223.02	223.12		223.12	0.003074	0.25	2.63	36.77	0.32
Reach18	300	25 Year	DonPhaseII_Final_Baseline	0.51	223.02	223.11		223.11	0.003839	0.25	2.21	35.90	0.35
Reach18	300	25 Year	DonPhaseII_Final_Proposed	0.51	223.02	223.11		223.11	0.003839	0.25	2.21	35.90	0.35
Reach18	300	10 Year	DonPhaseII_Final_Baseline	0.44	223.02	223.10		223.10	0.004628	0.25	1.89	34.59	0.37
Reach18	300	10 Year	DonPhaseII_Final_Proposed	0.44	223.02	223.10		223.10	0.004628	0.25	1.89	34.59	0.37
Reach18	300	5 Year	DonPhaseII_Final_Baseline	0.39	223.02	223.09		223.10	0.005139	0.24	1.70	34.01	0.38
Reach18	300	5 Year	DonPhaseII_Final_Proposed	0.39	223.02	223.09		223.10	0.005139	0.24	1.70	34.01	0.38
Reach18	300	2 Year	DonPhaseII_Final_Baseline	0.32	223.02	223.08		223.09	0.006927	0.24	1.36	32.98	0.43
Reach18	300	2 Year	DonPhaseII_Final_Proposed	0.32	223.02	223.08		223.09	0.006927	0.24	1.36	32.98	0.43
Reach18	200.31	Regional	DonPhaseII_Final_Baseline	54.32	222.81	224.04		224.09	0.001090	1.05	60.93	61.79	0.31
Reach18	200.31	Regional	DonPhaseII_Final_Proposed	54.32	222.81	224.04		224.09	0.001090	1.05	60.93	61.79	0.31
Reach18	200.31	350 Year	DonPhaseII_Final_Baseline	5.90	222.81	223.35		223.35	0.000274	0.29	22.39	52.24	0.13

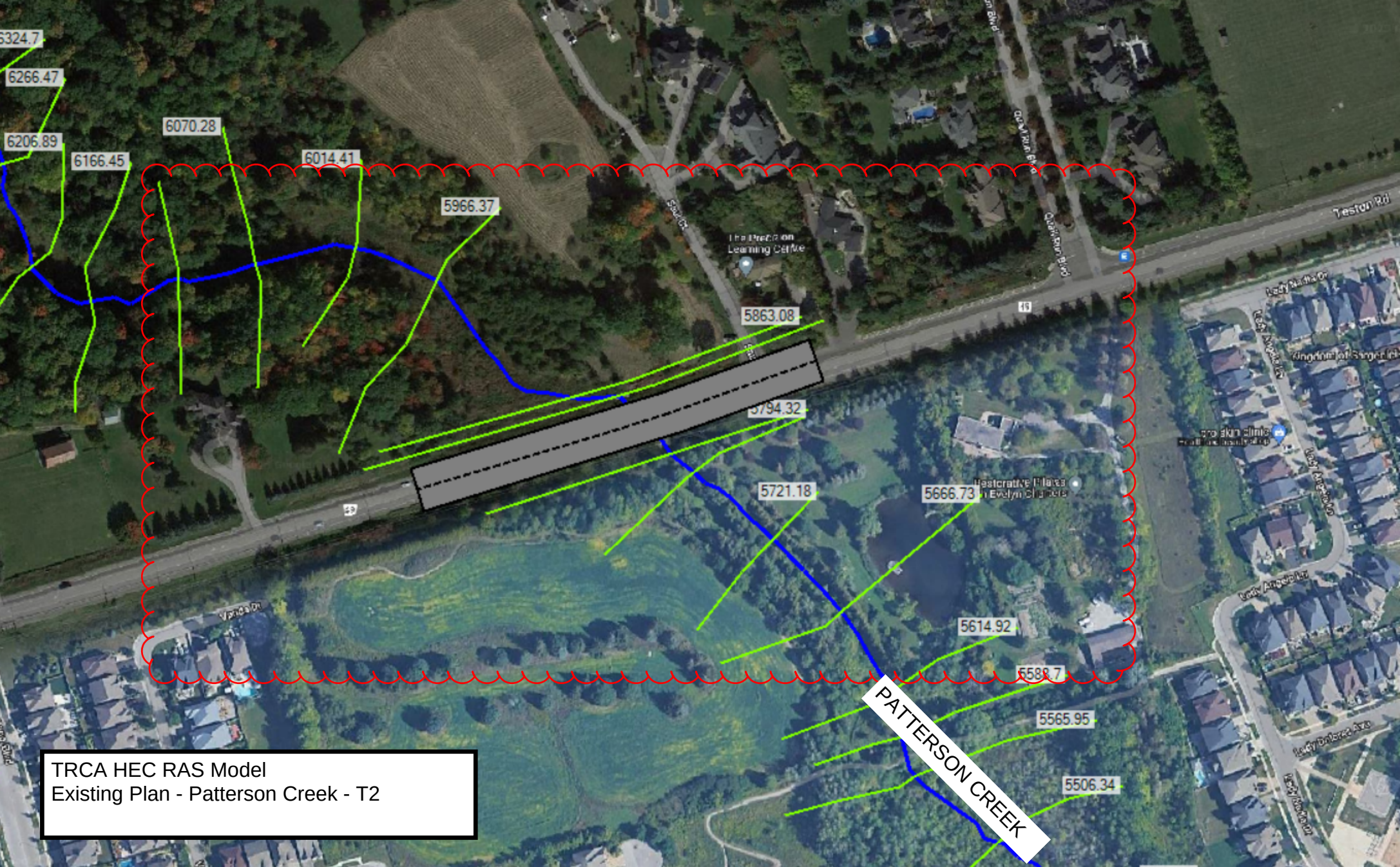
HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	200.31	350 Year	DonPhaseII_Final_Proposed	5.90	222.81	223.35		223.35	0.000274	0.29	22.39	52.24	0.13
Reach18	200.31	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	222.81	223.14		223.14	0.000055	0.09	12.06	47.75	0.05
Reach18	200.31	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	222.81	223.14		223.14	0.000055	0.09	12.06	47.75	0.05
Reach18	200.31	100 Year	DonPhaseII_Final_Baseline	0.79	222.81	223.13		223.13	0.000040	0.07	11.24	46.82	0.05
Reach18	200.31	100 Year	DonPhaseII_Final_Proposed	0.79	222.81	223.13		223.13	0.000040	0.07	11.24	46.82	0.05
Reach18	200.31	50 Year	DonPhaseII_Final_Baseline	0.61	222.81	223.11		223.11	0.000030	0.06	10.50	46.27	0.04
Reach18	200.31	50 Year	DonPhaseII_Final_Proposed	0.61	222.81	223.11		223.11	0.000030	0.06	10.50	46.27	0.04
Reach18	200.31	25 Year	DonPhaseII_Final_Baseline	0.51	222.81	223.10		223.10	0.000024	0.05	10.04	46.06	0.04
Reach18	200.31	25 Year	DonPhaseII_Final_Proposed	0.51	222.81	223.10		223.10	0.000024	0.05	10.04	46.06	0.04
Reach18	200.31	10 Year	DonPhaseII_Final_Baseline	0.44	222.81	223.09		223.09	0.000020	0.05	9.68	45.89	0.03
Reach18	200.31	10 Year	DonPhaseII_Final_Proposed	0.44	222.81	223.09		223.09	0.000020	0.05	9.68	45.89	0.03
Reach18	200.31	5 Year	DonPhaseII_Final_Baseline	0.39	222.81	223.09		223.09	0.000017	0.04	9.46	45.79	0.03
Reach18	200.31	5 Year	DonPhaseII_Final_Proposed	0.39	222.81	223.09		223.09	0.000017	0.04	9.46	45.79	0.03
Reach18	200.31	2 Year	DonPhaseII_Final_Baseline	0.32	222.81	223.08		223.08	0.000013	0.04	9.07	45.61	0.03
Reach18	200.31	2 Year	DonPhaseII_Final_Proposed	0.32	222.81	223.08		223.08	0.000013	0.04	9.07	45.61	0.03
Reach18	100	Regional	DonPhaseII_Final_Baseline	54.32	222.83	223.92		223.97	0.001423	1.04	55.85	64.32	0.34
Reach18	100	Regional	DonPhaseII_Final_Proposed	54.32	222.83	223.92		223.97	0.001423	1.04	55.85	64.32	0.34
Reach18	100	350 Year	DonPhaseII_Final_Baseline	5.90	222.83	223.31		223.31	0.000514	0.32	19.24	57.62	0.17
Reach18	100	350 Year	DonPhaseII_Final_Proposed	5.90	222.83	223.31		223.31	0.000514	0.32	19.24	57.62	0.17
Reach18	100	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	222.83	223.13		223.14	0.000166	0.11	9.34	56.38	0.09
Reach18	100	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	222.83	223.13		223.14	0.000166	0.11	9.34	56.38	0.09
Reach18	100	100 Year	DonPhaseII_Final_Baseline	0.79	222.83	223.12		223.12	0.000133	0.10	8.48	56.14	0.08
Reach18	100	100 Year	DonPhaseII_Final_Proposed	0.79	222.83	223.12		223.12	0.000133	0.10	8.48	56.14	0.08
Reach18	100	50 Year	DonPhaseII_Final_Baseline	0.61	222.83	223.11		223.11	0.000103	0.08	7.70	54.00	0.07
Reach18	100	50 Year	DonPhaseII_Final_Proposed	0.61	222.83	223.11		223.11	0.000103	0.08	7.70	54.00	0.07
Reach18	100	25 Year	DonPhaseII_Final_Baseline	0.51	222.83	223.10		223.10	0.000086	0.07	7.22	52.60	0.06
Reach18	100	25 Year	DonPhaseII_Final_Proposed	0.51	222.83	223.10		223.10	0.000086	0.07	7.22	52.60	0.06
Reach18	100	10 Year	DonPhaseII_Final_Baseline	0.44	222.83	223.09		223.09	0.000073	0.07	6.85	51.63	0.06
Reach18	100	10 Year	DonPhaseII_Final_Proposed	0.44	222.83	223.09		223.09	0.000073	0.07	6.85	51.63	0.06
Reach18	100	5 Year	DonPhaseII_Final_Baseline	0.39	222.83	223.09		223.09	0.000063	0.06	6.63	50.88	0.05
Reach18	100	5 Year	DonPhaseII_Final_Proposed	0.39	222.83	223.09		223.09	0.000063	0.06	6.63	50.88	0.05
Reach18	100	2 Year	DonPhaseII_Final_Baseline	0.32	222.83	223.08		223.08	0.000046	0.05	6.24	47.59	0.04
Reach18	100	2 Year	DonPhaseII_Final_Proposed	0.32	222.83	223.08		223.08	0.000046	0.05	6.24	47.59	0.04
Reach18	30.82	Regional	DonPhaseII_Final_Baseline	54.32	222.99	223.50	223.50	223.72	0.015858	2.11	26.65	60.87	1.01
Reach18	30.82	Regional	DonPhaseII_Final_Proposed	54.32	222.99	223.50	223.50	223.72	0.015858	2.11	26.65	60.87	1.01
Reach18	30.82	350 Year	DonPhaseII_Final_Baseline	5.90	222.99	223.15	223.15	223.20	0.025705	1.00	5.98	58.44	1.00
Reach18	30.82	350 Year	DonPhaseII_Final_Proposed	5.90	222.99	223.15	223.15	223.20	0.025705	1.00	5.98	58.44	1.00
Reach18	30.82	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	222.99	223.08	223.08	223.09	0.032790	0.55	1.88	53.41	0.94
Reach18	30.82	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	222.99	223.08	223.08	223.09	0.032790	0.55	1.88	53.41	0.94
Reach18	30.82	100 Year	DonPhaseII_Final_Baseline	0.79	222.99	223.07	223.07	223.09	0.050901	0.58	1.37	49.95	1.13
Reach18	30.82	100 Year	DonPhaseII_Final_Proposed	0.79	222.99	223.07	223.07	223.09	0.050901	0.58	1.37	49.95	1.13
Reach18	30.82	50 Year	DonPhaseII_Final_Baseline	0.61	222.99	223.06	223.06	223.08	0.048904	0.54	1.16	46.44	1.09
Reach18	30.82	50 Year	DonPhaseII_Final_Proposed	0.61	222.99	223.06	223.06	223.08	0.048904	0.54	1.16	46.44	1.09
Reach18	30.82	25 Year	DonPhaseII_Final_Baseline	0.51	222.99	223.06	223.06	223.07	0.033831	0.45	1.16	46.51	0.91
Reach18	30.82	25 Year	DonPhaseII_Final_Proposed	0.51	222.99	223.06	223.06	223.07	0.033831	0.45	1.16	46.51	0.91
Reach18	30.82	10 Year	DonPhaseII_Final_Baseline	0.44	222.99	223.06	223.06	223.07	0.033102	0.43	1.05	44.65	0.89
Reach18	30.82	10 Year	DonPhaseII_Final_Proposed	0.44	222.99	223.06	223.06	223.07	0.033102	0.43	1.05	44.65	0.89

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	30.82	5 Year	DonPhaseII_Final_Baseline	0.39	222.99	223.06	223.06	223.07	0.045198	0.47	0.85	39.00	1.02
Reach18	30.82	5 Year	DonPhaseII_Final_Proposed	0.39	222.99	223.06	223.06	223.07	0.045198	0.47	0.85	39.00	1.02
Reach18	30.82	2 Year	DonPhaseII_Final_Baseline	0.32	222.99	223.05	223.05	223.06	0.043683	0.44	0.74	37.08	0.99
Reach18	30.82	2 Year	DonPhaseII_Final_Proposed	0.32	222.99	223.05	223.05	223.06	0.043683	0.44	0.74	37.08	0.99

HECRAS Output
Patterson/ McNair Creek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6206.89
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5614.92
5588.7
5565.95
5506.34
PATTERSON CREEK
Teston Rd
TRCA HEC RAS Model
Existing Plan - Patterson Creek - T2

HEC-RAS River: PattersonCk Reach: T2

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	7266.38	Regional	DonPhaseII_Final_Baseline	10.14	268.31	269.68	1.24	270.10	0.010121	3.21	4.39	11.21	0.92
T2	7266.38	Regional	DonPhaseII_Final_Proposed	10.14	268.31	269.68	1.24	270.10	0.010121	3.21	4.39	11.21	0.92
T2	7266.38	350 Year	DonPhaseII_Final_Baseline	0.92	268.31	268.72	0.28	268.85	0.018872	1.63	0.58	2.36	0.98
T2	7266.38	350 Year	DonPhaseII_Final_Proposed	0.92	268.31	268.72	0.28	268.85	0.018872	1.63	0.58	2.36	0.98
T2	7266.38	100 Year	DonPhaseII_Final_Baseline	0.21	268.31	268.52	0.12	268.59	0.025758	1.11	0.19	1.54	1.00
T2	7266.38	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	268.31	268.55	0.14	268.62	0.024868	1.17	0.23	1.68	1.00
T2	7266.38	50 Year	DonPhaseII_Final_Baseline	0.19	268.31	268.51	0.12	268.57	0.025824	1.08	0.18	1.49	1.00
T2	7266.38	100 Year	DonPhaseII_Final_Proposed	0.21	268.31	268.52	0.12	268.59	0.025758	1.11	0.19	1.54	1.00
T2	7266.38	25 Year	DonPhaseII_Final_Baseline	0.17	268.31	268.50	0.11	268.56	0.026601	1.06	0.16	1.43	1.01
T2	7266.38	50 Year	DonPhaseII_Final_Proposed	0.19	268.31	268.51	0.12	268.57	0.025824	1.08	0.18	1.49	1.00
T2	7266.38	10 Year	DonPhaseII_Final_Baseline	0.14	268.31	268.49	0.10	268.54	0.027346	1.01	0.14	1.34	1.01
T2	7266.38	25 Year	DonPhaseII_Final_Proposed	0.17	268.31	268.50	0.11	268.56	0.026601	1.06	0.16	1.43	1.01
T2	7266.38	5 Year	DonPhaseII_Final_Baseline	0.12	268.31	268.48	0.10	268.52	0.027683	0.97	0.12	1.28	1.00
T2	7266.38	10 Year	DonPhaseII_Final_Proposed	0.14	268.31	268.49	0.10	268.54	0.027346	1.01	0.14	1.34	1.01
T2	7266.38	2 Year	DonPhaseII_Final_Baseline	0.09	268.31	268.46	0.08	268.50	0.028792	0.91	0.10	1.17	1.00
T2	7266.38	5 Year	DonPhaseII_Final_Proposed	0.12	268.31	268.48	0.10	268.52	0.027683	0.97	0.12	1.28	1.00
T2	7266.38	2 Year	DonPhaseII_Final_Proposed	0.09	268.31	268.46	0.08	268.50	0.028792	0.91	0.10	1.17	1.00
T2	7224.68	Regional	DonPhaseII_Final_Baseline	10.14	267.29	268.50	0.76	268.87	0.014966	2.67	3.87	6.68	0.98
T2	7224.68	Regional	DonPhaseII_Final_Proposed	10.14	267.29	268.50	0.76	268.87	0.014966	2.67	3.87	6.68	0.98
T2	7224.68	350 Year	DonPhaseII_Final_Baseline	0.92	267.29	267.64	0.23	267.76	0.021581	1.53	0.60	2.58	1.01
T2	7224.68	350 Year	DonPhaseII_Final_Proposed	0.92	267.29	267.64	0.23	267.76	0.021581	1.53	0.60	2.58	1.01
T2	7224.68	100 Year	DonPhaseII_Final_Baseline	0.21	267.29	267.53	0.14	267.55	0.007090	0.64	0.33	2.28	0.54
T2	7224.68	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	267.29	267.56	0.16	267.58	0.007134	0.71	0.39	2.35	0.55
T2	7224.68	50 Year	DonPhaseII_Final_Baseline	0.19	267.29	267.52	0.14	267.54	0.006936	0.62	0.31	2.26	0.53
T2	7224.68	100 Year	DonPhaseII_Final_Proposed	0.21	267.29	267.53	0.14	267.55	0.007090	0.64	0.33	2.28	0.54
T2	7224.68	25 Year	DonPhaseII_Final_Baseline	0.17	267.29	267.51	0.13	267.53	0.006973	0.59	0.29	2.23	0.53
T2	7224.68	50 Year	DonPhaseII_Final_Proposed	0.19	267.29	267.52	0.14	267.54	0.006936	0.62	0.31	2.26	0.53
T2	7224.68	10 Year	DonPhaseII_Final_Baseline	0.14	267.29	267.50	0.12	267.51	0.006833	0.55	0.25	2.20	0.52
T2	7224.68	25 Year	DonPhaseII_Final_Proposed	0.17	267.29	267.51	0.13	267.53	0.006973	0.59	0.29	2.23	0.53
T2	7224.68	5 Year	DonPhaseII_Final_Baseline	0.12	267.29	267.49	0.11	267.50	0.006867	0.52	0.23	2.17	0.51
T2	7224.68	10 Year	DonPhaseII_Final_Proposed	0.14	267.29	267.50	0.12	267.51	0.006833	0.55	0.25	2.20	0.52
T2	7224.68	2 Year	DonPhaseII_Final_Baseline	0.09	267.29	267.47	0.09	267.48	0.006997	0.47	0.19	2.12	0.50
T2	7224.68	5 Year	DonPhaseII_Final_Proposed	0.12	267.29	267.49	0.11	267.50	0.006867	0.52	0.23	2.17	0.51
T2	7224.68	2 Year	DonPhaseII_Final_Proposed	0.09	267.29	267.47	0.09	267.48	0.006997	0.47	0.19	2.12	0.50
T2	7165.76	Regional	DonPhaseII_Final_Baseline	10.14	266.51	267.59	1.02	267.63	0.003994	1.24	15.30	26.58	0.39
T2	7165.76	Regional	DonPhaseII_Final_Proposed	10.14	266.51	267.59	1.02	267.63	0.003994	1.24	15.30	26.58	0.39
T2	7165.76	350 Year	DonPhaseII_Final_Baseline	0.92	266.51	267.29	0.72	267.29	0.000181	0.21	8.18	21.84	0.08
T2	7165.76	350 Year	DonPhaseII_Final_Proposed	0.92	266.51	267.29	0.72	267.29	0.000181	0.21	8.18	21.84	0.08
T2	7165.76	100 Year	DonPhaseII_Final_Baseline	0.21	266.51	266.64	0.09	266.68	0.047068	0.93	0.23	2.54	0.99
T2	7165.76	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	266.51	266.66	0.10	266.71	0.047382	1.00	0.27	2.67	0.99
T2	7165.76	50 Year	DonPhaseII_Final_Baseline	0.19	266.51	266.63	0.08	266.67	0.049252	0.92	0.21	2.49	1.01
T2	7165.76	100 Year	DonPhaseII_Final_Proposed	0.21	266.51	266.64	0.09	266.68	0.047068	0.93	0.23	2.54	0.99
T2	7165.76	25 Year	DonPhaseII_Final_Baseline	0.17	266.51	266.62	0.08	266.66	0.048419	0.89	0.19	2.41	1.00
T2	7165.76	50 Year	DonPhaseII_Final_Proposed	0.19	266.51	266.63	0.08	266.67	0.049252	0.92	0.21	2.49	1.01
T2	7165.76	10 Year	DonPhaseII_Final_Baseline	0.14	266.51	266.61	0.07	266.65	0.050920	0.86	0.16	2.25	1.03
T2	7165.76	25 Year	DonPhaseII_Final_Proposed	0.17	266.51	266.62	0.08	266.66	0.048419	0.89	0.19	2.41	1.00
T2	7165.76	5 Year	DonPhaseII_Final_Baseline	0.12	266.51	266.60	0.07	266.64	0.049686	0.82	0.15	2.16	1.01
T2	7165.76	10 Year	DonPhaseII_Final_Proposed	0.14	266.51	266.61	0.07	266.65	0.050920	0.86	0.16	2.25	1.03
T2	7165.76	2 Year	DonPhaseII_Final_Baseline	0.09	266.51	266.59	0.06	266.62	0.047208	0.75	0.12	2.00	0.98
T2	7165.76	5 Year	DonPhaseII_Final_Proposed	0.12	266.51	266.60	0.07	266.64	0.049686	0.82	0.15	2.16	1.01
T2	7165.76	2 Year	DonPhaseII_Final_Proposed	0.09	266.51	266.59	0.06	266.62	0.047208	0.75	0.12	2.00	0.98
T2	7066.34	Regional	DonPhaseII_Final_Baseline	10.14	265.79	267.59	1.77	267.59	0.000083	0.32	66.02	50.40	0.08
T2	7066.34	Regional	DonPhaseII_Final_Proposed	10.14	265.79	267.59	1.77	267.59	0.000083	0.32	66.02	50.40	0.08
T2	7066.34	350 Year	DonPhaseII_Final_Baseline	0.92	265.79	267.29	1.47	267.29	0.000001	0.04	51.90	43.89	0.01
T2	7066.34	350 Year	DonPhaseII_Final_Proposed	0.92	265.79	267.29	1.47	267.29	0.000001	0.04	51.90	43.89	0.01
T2	7066.34	100 Year	DonPhaseII_Final_Baseline	0.21	265.79	266.10	0.29	266.10	0.000022	0.05	7.91	30.70	0.03
T2	7066.34	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	265.79	266.19	0.37	266.19	0.000015	0.05	10.69	31.96	0.02
T2	7066.34	50 Year	DonPhaseII_Final_Baseline	0.19	265.79	266.07	0.26	266.07	0.000026	0.05	7.04	30.13	0.03
T2	7066.34	100 Year	DonPhaseII_Final_Proposed	0.21	265.79	266.10	0.29	266.10	0.000022	0.05	7.91	30.70	0.03
T2	7066.34	25 Year	DonPhaseII_Final_Baseline	0.17	265.79	266.04	0.23	266.04	0.000031	0.05	6.17	29.56	0.03
T2	7066.34	50 Year	DonPhaseII_Final_Proposed	0.19	265.79	266.07	0.26	266.07	0.000026	0.05	7.04	30.13	0.03
T2	7066.34	10 Year	DonPhaseII_Final_Baseline	0.14	265.79	266.00	0.18	266.00	0.000045	0.05	4.85	28.75	0.04
T2	7066.34	25 Year	DonPhaseII_Final_Proposed	0.17	265.79	266.04	0.23	266.04	0.000031	0.05	6.17	29.56	0.03
T2	7066.34	5 Year	DonPhaseII_Final_Baseline	0.12	265.79	265.97	0.15	265.97	0.000062	0.05	3.94	28.03	0.04
T2	7066.34	10 Year	DonPhaseII_Final_Proposed	0.14	265.79	266.00	0.18	266.00	0.000045	0.05	4.85	28.75	0.04
T2	7066.34	2 Year	DonPhaseII_Final_Baseline	0.09	265.79	265.91	0.10	265.91	0.000106	0.05	2.66	23.38	0.05
T2	7066.34	5 Year	DonPhaseII_Final_Proposed	0.12	265.79	265.97	0.15	265.97	0.000062	0.05	3.94	28.03	0.04
T2	7066.34	2 Year	DonPhaseII_Final_Proposed	0.09	265.79	265.91	0.10	265.91	0.000106	0.05	2.66	23.38	0.05
T2	7027.84	Regional	DonPhaseII_Final_Baseline	10.14	265.44	267.59	2.14	267.59	0.000030	0.26	100.76	67.82	0.06
T2	7027.84	Regional	DonPhaseII_Final_Proposed	10.14	265.44	267.59	2.14	267.59	0.000030	0.26	100.76	67.82	0.06
T2	7027.84	350 Year	DonPhaseII_Final_Baseline	0.92	265.44	267.29	1.84	267.29	0.000000	0.03	80.80	65.56	0.01
T2	7027.84	350 Year	DonPhaseII_Final_Proposed	0.92	265.44	267.29	1.84	267.29	0.000000	0.03	80.80	65.56	0.01
T2	7027.84	100 Year	DonPhaseII_Final_Baseline	0.21	265.44	266.10	0.65	266.10	0.000003	0.03	16.54	42.01	0.01
T2	7027.84	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	265.44	266.19	0.74	266.19	0.000002	0.04	20.31	43.16	0.01
T2	7027.84	50 Year	DonPhaseII_Final_Baseline	0.19	265.44	266.07	0.62	266.07	0.000003	0.03	15.34	41.63	0.01
T2	7027.84	100 Year	DonPhaseII_Final_Proposed	0.21	265.44	266.10	0.65	266.10	0.000003	0.03	16.54	42.01	0.01
T2	7027.84	25 Year	DonPhaseII_Final_Baseline	0.17	265.44	266.04	0.59	266.04	0.000003	0.03	14.13	41.23	0.01
T2	7027.84	50 Year	DonPhaseII_Final_Proposed	0.19	265.44	266.07	0.62	266.07	0.000003	0.03	15.34	41.63	0.01
T2	7027.84	10 Year	DonPhaseII_Final_Baseline	0.14	265.44	266.00	0.55	266.00	0.000003	0.03	12.27	40.46	0.01
T2	7027.84	25 Year	DonPhaseII_Final_Proposed	0.17	265.44	266.04	0.59	266.04	0.000003	0.03	14.13	41.23	0.01
T2	7027.84	5 Year	DonPhaseII_Final_Baseline	0.12	265.44	265.97	0.52	265.97	0.000003	0.03	10.99	39.91	0.01
T2	7027.84	10 Year	DonPhaseII_Final_Proposed	0.14	265.44	266.00	0.55	266.00	0.000003	0.03	12.27	40.46	0.01
T2	7027.84	2 Year	DonPhaseII_Final_Baseline	0.09	265.44	265.91	0.47	265.91	0.000003	0.03	8.96	38.77	0.01
T2	7027.84	5 Year	DonPhaseII_Final_Proposed	0.12	265.44	265.97	0.52	265.97	0.000003	0.03	10.99	39.91	0.01
T2	7027.84	2 Year	DonPhaseII_Final_Proposed	0.09	265.44	265.91	0.47	265.91	0.000003	0.03	8.96	38.77	0.01
T2	7019.02	Regional	DonPhaseII_Final_Baseline	10.14	265.62	267.59	1.94	267.59	0.000055	0.24	85.02	73.32	0.06
T2	7019.02	Regional	DonPhaseII_Final_Proposed	10.14	265.62	267.59	1.94	267.59	0.000055	0.24	85.02	73.32	0.06
T2	7019.02	350 Year	DonPhaseII_Final_Baseline	0.92	265.62	267.29	1.64	267.29	0.000001	0.03	58.67	62.95	0.01
T2	7019.02	350 Year	DonPhaseII_Final_Proposed	0.92	265.62	267.29	1.64	267.29	0.000001	0.03	58.67	62.95	0.01
T2	7019.02	100 Year	DonPhaseII_Final_Baseline	0.21	265.62	266.10	0.45	266.10	0.000045	0.08	3.85	25.60	0.04
T2	7019.02	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	265.62	266.19	0.54	266.19	0.000035	0.08	4.97	38.16	0.04
T2	7019.02	50 Year	DonPhaseII_Final_Baseline	0.19	265.62	266.07	0.42	266.07	0.000050	0.08	3.49	22.12	0.04

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	7019.02	100 Year	DonPhaseII_Final_Proposed	0.21	265.62	266.10	0.45	266.10	0.000045	0.08	3.85	25.60	0.04
T2	7019.02	25 Year	DonPhaseII_Final_Baseline	0.17	265.62	266.04	0.39	266.04	0.000056	0.08	3.12	20.30	0.04
T2	7019.02	50 Year	DonPhaseII_Final_Proposed	0.19	265.62	266.07	0.42	266.07	0.000050	0.08	3.49	22.12	0.04
T2	7019.02	10 Year	DonPhaseII_Final_Baseline	0.14	265.62	266.00	0.35	266.00	0.000066	0.08	2.56	17.57	0.05
T2	7019.02	25 Year	DonPhaseII_Final_Proposed	0.17	265.62	266.04	0.39	266.04	0.000056	0.08	3.12	20.30	0.04
T2	7019.02	5 Year	DonPhaseII_Final_Baseline	0.12	265.62	265.96	0.32	265.97	0.000074	0.08	2.18	13.75	0.05
T2	7019.02	10 Year	DonPhaseII_Final_Proposed	0.14	265.62	266.00	0.35	266.00	0.000066	0.08	2.56	17.57	0.05
T2	7019.02	2 Year	DonPhaseII_Final_Baseline	0.09	265.62	265.91	0.26	265.91	0.000089	0.08	1.63	11.79	0.05
T2	7019.02	5 Year	DonPhaseII_Final_Proposed	0.12	265.62	265.96	0.32	265.97	0.000074	0.08	2.18	13.75	0.05
T2	7019.02	2 Year	DonPhaseII_Final_Proposed	0.09	265.62	265.91	0.26	265.91	0.000089	0.08	1.63	11.79	0.05
T2	7009.56			Culvert									
T2	6985.16	Regional	DonPhaseII_Final_Baseline	10.14	264.24	265.26	0.88	265.56	0.015338	2.84	5.65	16.67	0.97
T2	6985.16	Regional	DonPhaseII_Final_Proposed	10.14	264.24	265.26	0.88	265.56	0.015338	2.84	5.65	16.67	0.97
T2	6985.16	350 Year	DonPhaseII_Final_Baseline	0.92	264.24	264.63	0.25	264.71	0.012625	1.26	0.79	4.22	0.80
T2	6985.16	350 Year	DonPhaseII_Final_Proposed	0.92	264.24	264.63	0.25	264.71	0.012625	1.26	0.79	4.22	0.80
T2	6985.16	100 Year	DonPhaseII_Final_Baseline	0.21	264.24	264.47	0.13	264.50	0.009299	0.70	0.30	2.43	0.62
T2	6985.16	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	264.24	264.49	0.14	264.52	0.010759	0.81	0.34	2.55	0.69
T2	6985.16	50 Year	DonPhaseII_Final_Baseline	0.19	264.24	264.47	0.13	264.49	0.008431	0.66	0.29	2.40	0.59
T2	6985.16	100 Year	DonPhaseII_Final_Proposed	0.21	264.24	264.47	0.13	264.50	0.009299	0.70	0.30	2.43	0.62
T2	6985.16	25 Year	DonPhaseII_Final_Baseline	0.17	264.24	264.47	0.13	264.49	0.006170	0.57	0.30	2.42	0.51
T2	6985.16	50 Year	DonPhaseII_Final_Proposed	0.19	264.24	264.47	0.13	264.49	0.008431	0.66	0.29	2.40	0.59
T2	6985.16	10 Year	DonPhaseII_Final_Baseline	0.14	264.24	264.46	0.12	264.47	0.005532	0.51	0.27	2.34	0.47
T2	6985.16	25 Year	DonPhaseII_Final_Proposed	0.17	264.24	264.47	0.13	264.49	0.006170	0.57	0.30	2.42	0.51
T2	6985.16	5 Year	DonPhaseII_Final_Baseline	0.12	264.24	264.45	0.11	264.46	0.005252	0.48	0.25	2.26	0.46
T2	6985.16	10 Year	DonPhaseII_Final_Proposed	0.14	264.24	264.46	0.12	264.47	0.005532	0.51	0.27	2.34	0.47
T2	6985.16	2 Year	DonPhaseII_Final_Baseline	0.09	264.24	264.43	0.10	264.44	0.004696	0.43	0.21	2.12	0.43
T2	6985.16	5 Year	DonPhaseII_Final_Proposed	0.12	264.24	264.45	0.11	264.46	0.005252	0.48	0.25	2.26	0.46
T2	6985.16	2 Year	DonPhaseII_Final_Proposed	0.09	264.24	264.43	0.10	264.44	0.004696	0.43	0.21	2.12	0.43
T2	6974.07	Regional	DonPhaseII_Final_Baseline	10.14	264.23	264.80	0.50	264.89	0.019279	1.91	9.97	29.32	0.86
T2	6974.07	Regional	DonPhaseII_Final_Proposed	10.14	264.23	264.80	0.50	264.89	0.019279	1.91	9.97	29.32	0.86
T2	6974.07	350 Year	DonPhaseII_Final_Baseline	0.92	264.23	264.44	0.14	264.49	0.027569	1.13	1.33	14.85	0.95
T2	6974.07	350 Year	DonPhaseII_Final_Proposed	0.92	264.23	264.44	0.14	264.49	0.027569	1.13	1.33	14.85	0.95
T2	6974.07	100 Year	DonPhaseII_Final_Baseline	0.21	264.23	264.40	0.09	264.40	0.006428	0.45	0.66	10.59	0.47
T2	6974.07	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	264.23	264.41	0.11	264.42	0.006446	0.48	0.85	13.51	0.47
T2	6974.07	50 Year	DonPhaseII_Final_Baseline	0.19	264.23	264.39	0.08	264.40	0.007792	0.48	0.55	9.02	0.53
T2	6974.07	100 Year	DonPhaseII_Final_Proposed	0.21	264.23	264.40	0.09	264.40	0.006428	0.45	0.66	10.59	0.47
T2	6974.07	25 Year	DonPhaseII_Final_Baseline	0.17	264.23	264.36	0.07	264.38	0.019635	0.68	0.33	6.23	0.83
T2	6974.07	50 Year	DonPhaseII_Final_Proposed	0.19	264.23	264.39	0.08	264.40	0.007792	0.48	0.55	9.02	0.53
T2	6974.07	10 Year	DonPhaseII_Final_Baseline	0.14	264.23	264.35	0.06	264.37	0.021122	0.66	0.27	5.53	0.84
T2	6974.07	25 Year	DonPhaseII_Final_Proposed	0.17	264.23	264.36	0.07	264.38	0.019635	0.68	0.33	6.23	0.83
T2	6974.07	5 Year	DonPhaseII_Final_Baseline	0.12	264.23	264.34	0.06	264.36	0.021236	0.64	0.24	5.09	0.83
T2	6974.07	10 Year	DonPhaseII_Final_Proposed	0.14	264.23	264.35	0.06	264.37	0.021122	0.66	0.27	5.53	0.84
T2	6974.07	2 Year	DonPhaseII_Final_Baseline	0.09	264.23	264.33	0.05	264.34	0.022483	0.62	0.18	4.19	0.84
T2	6974.07	5 Year	DonPhaseII_Final_Proposed	0.12	264.23	264.34	0.06	264.36	0.021236	0.64	0.24	5.09	0.83
T2	6974.07	2 Year	DonPhaseII_Final_Proposed	0.09	264.23	264.33	0.05	264.34	0.022483	0.62	0.18	4.19	0.84
T2	6928.68	Regional	DonPhaseII_Final_Baseline	10.14	263.65	264.12	0.46	264.19	0.012544	1.91	10.66	22.10	0.90
T2	6928.68	Regional	DonPhaseII_Final_Proposed	10.14	263.65	264.12	0.46	264.19	0.012544	1.91	10.66	22.10	0.90
T2	6928.68	350 Year	DonPhaseII_Final_Baseline	0.92	263.65	263.84	0.17	263.84	0.001540	0.35	4.61	20.06	0.27
T2	6928.68	350 Year	DonPhaseII_Final_Proposed	0.92	263.65	263.84	0.17	263.84	0.001540	0.35	4.61	20.06	0.27
T2	6928.68	100 Year	DonPhaseII_Final_Baseline	0.21	263.65	263.59		263.62	0.133783		0.33	7.43	0.00
T2	6928.68	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	263.65	263.60		263.63	0.139315		0.40	8.47	0.00
T2	6928.68	50 Year	DonPhaseII_Final_Baseline	0.19	263.65	263.60		263.62	0.064607		0.41	8.61	0.00
T2	6928.68	100 Year	DonPhaseII_Final_Proposed	0.21	263.65	263.59		263.62	0.133783		0.33	7.43	0.00
T2	6928.68	25 Year	DonPhaseII_Final_Baseline	0.17	263.65	263.63		263.64	0.013694		0.77	14.64	0.00
T2	6928.68	50 Year	DonPhaseII_Final_Proposed	0.19	263.65	263.60		263.62	0.064607		0.41	8.61	0.00
T2	6928.68	10 Year	DonPhaseII_Final_Baseline	0.14	263.65	263.63		263.63	0.012749		0.69	14.29	0.00
T2	6928.68	25 Year	DonPhaseII_Final_Proposed	0.17	263.65	263.63		263.64	0.013694		0.77	14.64	0.00
T2	6928.68	5 Year	DonPhaseII_Final_Baseline	0.12	263.65	263.62		263.62	0.012571		0.62	13.98	0.00
T2	6928.68	10 Year	DonPhaseII_Final_Proposed	0.14	263.65	263.63		263.63	0.012749		0.69	14.29	0.00
T2	6928.68	2 Year	DonPhaseII_Final_Baseline	0.09	263.65	263.61		263.61	0.012054		0.44	9.18	0.00
T2	6928.68	5 Year	DonPhaseII_Final_Proposed	0.12	263.65	263.62		263.62	0.012571		0.62	13.98	0.00
T2	6928.68	2 Year	DonPhaseII_Final_Proposed	0.09	263.65	263.61		263.61	0.012054		0.44	9.18	0.00
T2	6866.37	Regional	DonPhaseII_Final_Baseline	10.14	261.99	264.16	2.16	264.16	0.000024	0.23	76.16	55.82	0.05
T2	6866.37	Regional	DonPhaseII_Final_Proposed	10.14	261.99	264.16	2.16	264.16	0.000024	0.23	76.16	55.82	0.05
T2	6866.37	350 Year	DonPhaseII_Final_Baseline	0.92	261.99	263.84	1.84	263.84	0.000000	0.03	60.31	45.42	0.01
T2	6866.37	350 Year	DonPhaseII_Final_Proposed	0.92	261.99	263.84	1.84	263.84	0.000000	0.03	60.31	45.42	0.01
T2	6866.37	100 Year	DonPhaseII_Final_Baseline	0.21	261.99	262.07	0.07	262.08	0.001110	0.17	1.48	16.88	0.20
T2	6866.37	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.99	262.25	0.25	262.25	0.000047	0.08	4.73	19.26	0.05
T2	6866.37	50 Year	DonPhaseII_Final_Baseline	0.19	261.99	262.02	0.02	262.03	0.013280	0.24	0.62	15.17	0.54
T2	6866.37	100 Year	DonPhaseII_Final_Proposed	0.21	261.99	262.07	0.07	262.08	0.001110	0.17	1.48	16.88	0.20
T2	6866.37	25 Year	DonPhaseII_Final_Baseline	0.17	261.99	262.00	0.00	262.01	0.064703	0.18	0.32	10.99	0.93
T2	6866.37	50 Year	DonPhaseII_Final_Proposed	0.19	261.99	262.02	0.02	262.03	0.013280	0.24	0.62	15.17	0.54
T2	6866.37	10 Year	DonPhaseII_Final_Baseline	0.14	261.99	261.99	0.00	262.01	0.075963	0.08	0.26	9.29	0.81
T2	6866.37	25 Year	DonPhaseII_Final_Proposed	0.17	261.99	262.00	0.00	262.01	0.064703	0.18	0.32	10.99	0.93
T2	6866.37	5 Year	DonPhaseII_Final_Baseline	0.12	261.99	261.99		262.00	0.078025		0.23	8.49	0.00
T2	6866.37	10 Year	DonPhaseII_Final_Proposed	0.14	261.99	261.99	0.00	262.01	0.075963	0.08	0.26	9.29	0.81
T2	6866.37	2 Year	DonPhaseII_Final_Baseline	0.09	261.99	261.98		262.00	0.085507		0.18	7.63	0.00
T2	6866.37	5 Year	DonPhaseII_Final_Proposed	0.12	261.99	261.99		262.00	0.078025		0.23	8.49	0.00
T2	6866.37	2 Year	DonPhaseII_Final_Proposed	0.09	261.99	261.98		262.00	0.085507		0.18	7.63	0.00
T2	6842.92	Regional	DonPhaseII_Final_Baseline	10.14	261.46	264.16	2.66	264.16	0.000010	0.17	110.57	76.26	0.03
T2	6842.92	Regional	DonPhaseII_Final_Proposed	10.14	261.46	264.16	2.66	264.16	0.000010	0.17	110.57	76.26	0.03
T2	6842.92	350 Year	DonPhaseII_Final_Baseline	0.92	261.46	263.84	2.33	263.84	0.000000	0.02	92.55	51.07	0.00
T2	6842.92	350 Year	DonPhaseII_Final_Proposed	0.92	261.46	263.84	2.33	263.84	0.000000	0.02	92.55	51.07	0.00
T2	6842.92	100 Year	DonPhaseII_Final_Baseline	0.21	261.46	262.07	0.57	262.07	0.000001	0.02	15.41	33.77	0.01
T2	6842.92	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.46	262.25	0.75	262.25	0.000001	0.02	21.64	36.14	0.01
T2	6842.92	50 Year	DonPhaseII_Final_Baseline	0.19	261.46	262.02	0.52	262.02	0.000002	0.02	13.73	32.85	0.01
T2	6842.92	100 Year	DonPhaseII_Final_Proposed	0.21	261.46	262.07	0.57	262.07	0.000001	0.02	15.41	33.77	0.01
T2	6842.92	25 Year	DonPhaseII_Final_Baseline	0.17	261.46	261.98	0.48	261.98	0.000002	0.02	12.44	32.05	0.01
T2	6842.92	50 Year	DonPhaseII_Final_Proposed	0.19	261.46	262.02	0.52	262.02	0.000002	0.02	13.73	32.85	0.01
T2	6842.92	10 Year	DonPhaseII_Final_Baseline	0.14	261.46	261.93	0.42	261.93	0.000002	0.02	10.60	31.05	0.01
T2	6842.92	25 Year	DonPhaseII_Final_Proposed	0.17	261.46	261.98	0.48	261.98	0.000002	0.02	12.44	32.05	0.01

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	6842.92	5 Year	DonPhaseII_Final_Baseline	0.12	261.46	261.90	0.39	261.90	0.000002	0.02	9.67	30.55	0.01
T2	6842.92	10 Year	DonPhaseII_Final_Proposed	0.14	261.46	261.93	0.42	261.93	0.000002	0.02	10.60	31.05	0.01
T2	6842.92	2 Year	DonPhaseII_Final_Baseline	0.09	261.46	261.85	0.35	261.85	0.000002	0.02	8.33	29.86	0.01
T2	6842.92	5 Year	DonPhaseII_Final_Proposed	0.12	261.46	261.90	0.39	261.90	0.000002	0.02	9.67	30.55	0.01
T2	6842.92	2 Year	DonPhaseII_Final_Proposed	0.09	261.46	261.85	0.35	261.85	0.000002	0.02	8.33	29.86	0.01
T2	6837.71	Regional	DonPhaseII_Final_Baseline	10.14	261.61	264.16	2.54	264.16	0.000027	0.27	73.55	83.89	0.05
T2	6837.71	Regional	DonPhaseII_Final_Proposed	10.14	261.61	264.16	2.54	264.16	0.000027	0.27	73.55	83.89	0.05
T2	6837.71	350 Year	DonPhaseII_Final_Baseline	0.92	261.61	263.84	2.22	263.84	0.000000	0.03	57.96	48.76	0.01
T2	6837.71	350 Year	DonPhaseII_Final_Proposed	0.92	261.61	263.84	2.22	263.84	0.000000	0.03	57.96	48.76	0.01
T2	6837.71	100 Year	DonPhaseII_Final_Baseline	0.21	261.61	262.07	0.45	262.07	0.000008	0.05	7.93	23.99	0.02
T2	6837.71	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.61	262.25	0.63	262.25	0.000004	0.04	12.12	27.08	0.02
T2	6837.71	50 Year	DonPhaseII_Final_Baseline	0.19	261.61	262.02	0.40	262.02	0.000010	0.05	6.81	23.28	0.02
T2	6837.71	100 Year	DonPhaseII_Final_Proposed	0.21	261.61	262.07	0.45	262.07	0.000008	0.05	7.93	23.99	0.02
T2	6837.71	25 Year	DonPhaseII_Final_Baseline	0.17	261.61	261.98	0.36	261.98	0.000012	0.05	5.93	22.67	0.03
T2	6837.71	50 Year	DonPhaseII_Final_Proposed	0.19	261.61	262.02	0.40	262.02	0.000010	0.05	6.81	23.28	0.02
T2	6837.71	10 Year	DonPhaseII_Final_Baseline	0.14	261.61	261.93	0.31	261.93	0.000015	0.05	4.67	21.00	0.03
T2	6837.71	25 Year	DonPhaseII_Final_Proposed	0.17	261.61	261.98	0.36	261.98	0.000012	0.05	5.93	22.67	0.03
T2	6837.71	5 Year	DonPhaseII_Final_Baseline	0.12	261.61	261.90	0.28	261.90	0.000017	0.05	4.07	19.63	0.03
T2	6837.71	10 Year	DonPhaseII_Final_Proposed	0.14	261.61	261.93	0.31	261.93	0.000015	0.05	4.67	21.00	0.03
T2	6837.71	2 Year	DonPhaseII_Final_Baseline	0.09	261.61	261.85	0.23	261.85	0.000018	0.05	3.23	18.25	0.03
T2	6837.71	5 Year	DonPhaseII_Final_Proposed	0.12	261.61	261.90	0.28	261.90	0.000017	0.05	4.07	19.63	0.03
T2	6837.71	2 Year	DonPhaseII_Final_Proposed	0.09	261.61	261.85	0.23	261.85	0.000018	0.05	3.23	18.25	0.03
T2	6823.54			Culvert									
T2	6799.6	Regional	DonPhaseII_Final_Baseline	10.14	261.66	262.06	0.37	262.22	0.023018	2.22	7.68	41.50	1.17
T2	6799.6	Regional	DonPhaseII_Final_Proposed	10.14	261.66	262.06	0.37	262.22	0.023018	2.22	7.68	41.50	1.17
T2	6799.6	350 Year	DonPhaseII_Final_Baseline	0.92	261.66	261.79	0.09	261.82	0.021739	0.87	1.57	17.97	0.91
T2	6799.6	350 Year	DonPhaseII_Final_Proposed	0.92	261.66	261.79	0.09	261.82	0.021739	0.87	1.57	17.97	0.91
T2	6799.6	100 Year	DonPhaseII_Final_Baseline	0.21	261.66	261.72	0.04	261.73	0.022011	0.49	0.59	11.81	0.79
T2	6799.6	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.66	261.74	0.05	261.75	0.014087	0.47	0.80	12.75	0.66
T2	6799.6	50 Year	DonPhaseII_Final_Baseline	0.19	261.66	261.72	0.04	261.73	0.022548	0.47	0.55	11.59	0.79
T2	6799.6	100 Year	DonPhaseII_Final_Proposed	0.21	261.66	261.72	0.04	261.73	0.022011	0.49	0.59	11.81	0.79
T2	6799.6	25 Year	DonPhaseII_Final_Baseline	0.17	261.66	261.72	0.03	261.72	0.021526	0.45	0.52	11.42	0.77
T2	6799.6	50 Year	DonPhaseII_Final_Proposed	0.19	261.66	261.72	0.04	261.73	0.022548	0.47	0.55	11.59	0.79
T2	6799.6	10 Year	DonPhaseII_Final_Baseline	0.14	261.66	261.71	0.03	261.72	0.020583	0.41	0.47	11.12	0.74
T2	6799.6	25 Year	DonPhaseII_Final_Proposed	0.17	261.66	261.72	0.03	261.72	0.021526	0.45	0.52	11.42	0.77
T2	6799.6	5 Year	DonPhaseII_Final_Baseline	0.12	261.66	261.71	0.03	261.71	0.017980	0.37	0.44	10.92	0.68
T2	6799.6	10 Year	DonPhaseII_Final_Proposed	0.14	261.66	261.71	0.03	261.72	0.020583	0.41	0.47	11.12	0.74
T2	6799.6	2 Year	DonPhaseII_Final_Baseline	0.09	261.66	261.70	0.03	261.71	0.018223	0.35	0.36	10.06	0.68
T2	6799.6	5 Year	DonPhaseII_Final_Proposed	0.12	261.66	261.71	0.03	261.71	0.017980	0.37	0.44	10.92	0.68
T2	6799.6	2 Year	DonPhaseII_Final_Proposed	0.09	261.66	261.70	0.03	261.71	0.018223	0.35	0.36	10.06	0.68
T2	6792.3	Regional	DonPhaseII_Final_Baseline	10.14	261.42	261.85	0.42	261.96	0.027947	2.67	9.95	39.69	1.32
T2	6792.3	Regional	DonPhaseII_Final_Proposed	10.14	261.42	261.85	0.42	261.96	0.027947	2.67	9.95	39.69	1.32
T2	6792.3	350 Year	DonPhaseII_Final_Baseline	0.92	261.42	261.55	0.12	261.59	0.036381	1.33	1.59	19.32	1.22
T2	6792.3	350 Year	DonPhaseII_Final_Proposed	0.92	261.42	261.55	0.12	261.59	0.036381	1.33	1.59	19.32	1.22
T2	6792.3	100 Year	DonPhaseII_Final_Baseline	0.21	261.42	261.49	0.06	261.51	0.033055	0.82	0.58	16.03	1.05
T2	6792.3	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.42	261.49	0.06	261.52	0.067785	1.12	0.52	15.24	1.48
T2	6792.3	50 Year	DonPhaseII_Final_Baseline	0.19	261.42	261.49	0.06	261.50	0.032228	0.78	0.52	15.30	1.02
T2	6792.3	100 Year	DonPhaseII_Final_Proposed	0.21	261.42	261.49	0.06	261.51	0.033055	0.82	0.58	16.03	1.05
T2	6792.3	25 Year	DonPhaseII_Final_Baseline	0.17	261.42	261.48	0.05	261.50	0.035687	0.77	0.46	14.33	1.06
T2	6792.3	50 Year	DonPhaseII_Final_Proposed	0.19	261.42	261.49	0.06	261.50	0.032228	0.78	0.52	15.30	1.02
T2	6792.3	10 Year	DonPhaseII_Final_Baseline	0.14	261.42	261.48	0.05	261.49	0.037056	0.74	0.38	13.08	1.06
T2	6792.3	25 Year	DonPhaseII_Final_Proposed	0.17	261.42	261.48	0.05	261.50	0.035687	0.77	0.46	14.33	1.06
T2	6792.3	5 Year	DonPhaseII_Final_Baseline	0.12	261.42	261.47	0.04	261.49	0.045817	0.75	0.31	11.63	1.16
T2	6792.3	10 Year	DonPhaseII_Final_Proposed	0.14	261.42	261.48	0.05	261.49	0.037056	0.74	0.38	13.08	1.06
T2	6792.3	2 Year	DonPhaseII_Final_Baseline	0.09	261.42	261.47	0.04	261.48	0.044192	0.67	0.25	9.69	1.11
T2	6792.3	5 Year	DonPhaseII_Final_Proposed	0.12	261.42	261.47	0.04	261.49	0.045817	0.75	0.31	11.63	1.16
T2	6792.3	2 Year	DonPhaseII_Final_Proposed	0.09	261.42	261.47	0.04	261.48	0.044192	0.67	0.25	9.69	1.11
T2	6752.4	Regional	DonPhaseII_Final_Baseline	10.14	260.65	261.29	0.61	261.39	0.008109	1.85	10.36	23.14	0.76
T2	6752.4	Regional	DonPhaseII_Final_Proposed	10.14	260.65	261.29	0.61	261.39	0.008109	1.85	10.36	23.14	0.76
T2	6752.4	350 Year	DonPhaseII_Final_Baseline	0.92	260.65	260.86	0.18	260.88	0.005897	0.71	2.07	15.18	0.53
T2	6752.4	350 Year	DonPhaseII_Final_Proposed	0.92	260.65	260.86	0.18	260.88	0.005897	0.71	2.07	15.18	0.53
T2	6752.4	100 Year	DonPhaseII_Final_Baseline	0.21	260.65	260.76	0.08	260.77	0.005199	0.39	0.74	10.48	0.43
T2	6752.4	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	260.65	260.77	0.10	260.78	0.005302	0.44	0.87	10.74	0.45
T2	6752.4	50 Year	DonPhaseII_Final_Baseline	0.19	260.65	260.76	0.08	260.76	0.005009	0.37	0.70	10.41	0.42
T2	6752.4	100 Year	DonPhaseII_Final_Proposed	0.21	260.65	260.76	0.08	260.77	0.005199	0.39	0.74	10.48	0.43
T2	6752.4	25 Year	DonPhaseII_Final_Baseline	0.17	260.65	260.75	0.07	260.76	0.005303	0.36	0.63	9.76	0.43
T2	6752.4	50 Year	DonPhaseII_Final_Proposed	0.19	260.65	260.76	0.08	260.76	0.005009	0.37	0.70	10.41	0.42
T2	6752.4	10 Year	DonPhaseII_Final_Baseline	0.14	260.65	260.74	0.07	260.75	0.005078	0.33	0.57	9.62	0.41
T2	6752.4	25 Year	DonPhaseII_Final_Proposed	0.17	260.65	260.75	0.07	260.76	0.005303	0.36	0.63	9.76	0.43
T2	6752.4	5 Year	DonPhaseII_Final_Baseline	0.12	260.65	260.74	0.06	260.74	0.005067	0.31	0.51	9.45	0.41
T2	6752.4	10 Year	DonPhaseII_Final_Proposed	0.14	260.65	260.74	0.07	260.75	0.005078	0.33	0.57	9.62	0.41
T2	6752.4	2 Year	DonPhaseII_Final_Baseline	0.09	260.65	260.73	0.05	260.73	0.005017	0.28	0.43	9.12	0.39
T2	6752.4	5 Year	DonPhaseII_Final_Proposed	0.12	260.65	260.74	0.06	260.74	0.005067	0.31	0.51	9.45	0.41
T2	6752.4	2 Year	DonPhaseII_Final_Proposed	0.09	260.65	260.73	0.05	260.73	0.005017	0.28	0.43	9.12	0.39
T2	6713.62	Regional	DonPhaseII_Final_Baseline	10.14	260.16	260.57	0.38	260.76	0.045224	3.20	6.49	17.90	1.65
T2	6713.62	Regional	DonPhaseII_Final_Proposed	10.14	260.16	260.57	0.38	260.76	0.045224	3.20	6.49	17.90	1.65
T2	6713.62	350 Year	DonPhaseII_Final_Baseline	0.92	260.16	260.23	0.04	260.27	0.115925	1.15	1.07	13.66	1.82
T2	6713.62	350 Year	DonPhaseII_Final_Proposed	0.92	260.16	260.23	0.04	260.27	0.115925	1.15	1.07	13.66	1.82
T2	6713.62	100 Year	DonPhaseII_Final_Baseline	0.21	260.16	260.16	0.00	260.18	0.163823	0.21	0.34	8.72	1.35
T2	6713.62	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	260.16	260.17	0.01	260.20	0.148313	0.41	0.43	9.62	1.54
T2	6713.62	50 Year	DonPhaseII_Final_Baseline	0.19	260.16	260.16		260.18	0.202188		0.30	8.19	0.00
T2	6713.62	100 Year	DonPhaseII_Final_Proposed	0.21	260.16	260.16	0.00	260.18	0.163823	0.21	0.34	8.72	1.35
T2	6713.62	25 Year	DonPhaseII_Final_Baseline	0.17	260.16	260.16	0.00	260.18	0.142444	0.07	0.31	8.35	0.99
T2	6713.62	50 Year	DonPhaseII_Final_Proposed	0.19	260.16	260.16		260.18	0.202188		0.30	8.19	0.00
T2	6713.62	10 Year	DonPhaseII_Final_Baseline	0.14	260.16	260.15		260.17	0.180659		0.25	7.61	0.00
T2	6713.62	25 Year	DonPhaseII_Final_Proposed	0.17	260.16	260.16	0.00	260.18	0.142444	0.07	0.31	8.35	0.99
T2	6713.62	5 Year	DonPhaseII_Final_Baseline	0.12	260.16	260.15		260.17	0.178616		0.22	7.30	0.00
T2	6713.62	10 Year	DonPhaseII_Final_Proposed	0.14	260.16	260.15		260.17	0.180659		0.25	7.61	0.00
T2	6713.62	2 Year	DonPhaseII_Final_Baseline	0.09	260.16	260.14		260.16	0.186364		0.18	6.65	0.00
T2	6713.62	5 Year	DonPhaseII_Final_Proposed	0.12	260.16	260.15		260.17	0.178616		0.22	7.30	0.00
T2	6713.62	2 Year	DonPhaseII_Final_Proposed	0.09	260.16	260.14		260.16	0.186364		0.18	6.65	0.00

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	6666.43	Regional	DonPhaseII_Final_Baseline	10.14	259.36	260.07	0.70	260.10	0.003950	1.41	16.27	27.97	0.54
T2	6666.43	Regional	DonPhaseII_Final_Proposed	10.14	259.36	260.07	0.70	260.10	0.003950	1.41	16.27	27.97	0.54
T2	6666.43	350 Year	DonPhaseII_Final_Baseline	0.92	259.36	259.52	0.15	259.53	0.005067	0.58	3.14	20.44	0.47
T2	6666.43	350 Year	DonPhaseII_Final_Proposed	0.92	259.36	259.52	0.15	259.53	0.005067	0.58	3.14	20.44	0.47
T2	6666.43	100 Year	DonPhaseII_Final_Baseline	0.21	259.36	259.42	0.05	259.43	0.005448	0.28	1.17	18.43	0.41
T2	6666.43	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	259.36	259.44	0.06	259.44	0.005221	0.33	1.42	18.73	0.42
T2	6666.43	50 Year	DonPhaseII_Final_Baseline	0.19	259.36	259.42	0.05	259.42	0.005347	0.27	1.10	18.35	0.40
T2	6666.43	100 Year	DonPhaseII_Final_Proposed	0.21	259.36	259.42	0.05	259.43	0.005448	0.28	1.17	18.43	0.41
T2	6666.43	25 Year	DonPhaseII_Final_Baseline	0.17	259.36	259.41	0.04	259.42	0.005621	0.25	1.00	18.14	0.40
T2	6666.43	50 Year	DonPhaseII_Final_Proposed	0.19	259.36	259.42	0.05	259.42	0.005347	0.27	1.10	18.35	0.40
T2	6666.43	10 Year	DonPhaseII_Final_Baseline	0.14	259.36	259.41	0.03	259.41	0.005508	0.22	0.87	17.29	0.38
T2	6666.43	25 Year	DonPhaseII_Final_Proposed	0.17	259.36	259.41	0.04	259.42	0.005621	0.25	1.00	18.14	0.40
T2	6666.43	5 Year	DonPhaseII_Final_Baseline	0.12	259.36	259.40	0.03	259.40	0.005494	0.19	0.77	16.25	0.37
T2	6666.43	10 Year	DonPhaseII_Final_Proposed	0.14	259.36	259.41	0.03	259.41	0.005508	0.22	0.87	17.29	0.38
T2	6666.43	2 Year	DonPhaseII_Final_Baseline	0.09	259.36	259.39	0.02	259.39	0.005539	0.14	0.61	15.27	0.34
T2	6666.43	5 Year	DonPhaseII_Final_Proposed	0.12	259.36	259.40	0.03	259.40	0.005494	0.19	0.77	16.25	0.37
T2	6666.43	2 Year	DonPhaseII_Final_Proposed	0.09	259.36	259.39	0.02	259.39	0.005539	0.14	0.61	15.27	0.34
T2	6608.4	Regional	DonPhaseII_Final_Baseline	18.05	258.46	259.27	0.79	259.52	0.021875	3.62	12.37	23.69	1.30
T2	6608.4	Regional	DonPhaseII_Final_Proposed	18.05	258.46	259.27	0.79	259.52	0.021875	3.62	12.37	23.69	1.30
T2	6608.4	350 Year	DonPhaseII_Final_Baseline	1.91	258.46	258.74	0.27	258.82	0.022189	1.77	2.38	14.05	1.09
T2	6608.4	350 Year	DonPhaseII_Final_Proposed	1.91	258.46	258.74	0.27	258.82	0.022189	1.77	2.38	14.05	1.09
T2	6608.4	100 Year	DonPhaseII_Final_Baseline	0.45	258.46	258.60	0.13	258.64	0.024321	1.14	0.76	9.13	1.01
T2	6608.4	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	258.46	258.62	0.15	258.67	0.024789	1.25	0.92	9.70	1.04
T2	6608.4	50 Year	DonPhaseII_Final_Baseline	0.41	258.46	258.60	0.12	258.64	0.024730	1.11	0.70	8.91	1.01
T2	6608.4	100 Year	DonPhaseII_Final_Proposed	0.45	258.46	258.60	0.13	258.64	0.024321	1.14	0.76	9.13	1.01
T2	6608.4	25 Year	DonPhaseII_Final_Baseline	0.36	258.46	258.59	0.12	258.63	0.023987	1.05	0.64	8.68	0.99
T2	6608.4	50 Year	DonPhaseII_Final_Proposed	0.41	258.46	258.60	0.12	258.64	0.024730	1.11	0.70	8.91	1.01
T2	6608.4	10 Year	DonPhaseII_Final_Baseline	0.31	258.46	258.58	0.11	258.62	0.023777	1.00	0.58	8.40	0.97
T2	6608.4	25 Year	DonPhaseII_Final_Proposed	0.36	258.46	258.59	0.12	258.63	0.023987	1.05	0.64	8.68	0.99
T2	6608.4	5 Year	DonPhaseII_Final_Baseline	0.27	258.46	258.57	0.10	258.61	0.023675	0.95	0.52	8.16	0.96
T2	6608.4	10 Year	DonPhaseII_Final_Proposed	0.31	258.46	258.58	0.11	258.62	0.023777	1.00	0.58	8.40	0.97
T2	6608.4	2 Year	DonPhaseII_Final_Baseline	0.20	258.46	258.56	0.09	258.59	0.024145	0.87	0.41	7.66	0.94
T2	6608.4	5 Year	DonPhaseII_Final_Proposed	0.27	258.46	258.57	0.10	258.61	0.023675	0.95	0.52	8.16	0.96
T2	6608.4	2 Year	DonPhaseII_Final_Proposed	0.20	258.46	258.56	0.09	258.59	0.024145	0.87	0.41	7.66	0.94
T2	6530.11	Regional	DonPhaseII_Final_Baseline	18.05	257.90	258.57	0.65	258.59	0.005006	1.52	28.71	56.74	0.60
T2	6530.11	Regional	DonPhaseII_Final_Proposed	18.05	257.90	258.57	0.65	258.59	0.005006	1.52	28.71	56.74	0.60
T2	6530.11	350 Year	DonPhaseII_Final_Baseline	1.91	257.90	258.08	0.17	258.08	0.004790	0.60	6.36	33.45	0.47
T2	6530.11	350 Year	DonPhaseII_Final_Proposed	1.91	257.90	258.08	0.17	258.08	0.004790	0.60	6.36	33.45	0.47
T2	6530.11	100 Year	DonPhaseII_Final_Baseline	0.45	257.90	257.97	0.06	257.97	0.003174	0.24	2.89	30.04	0.32
T2	6530.11	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	257.90	257.98	0.07	257.99	0.003434	0.29	3.33	30.59	0.34
T2	6530.11	50 Year	DonPhaseII_Final_Baseline	0.41	257.90	257.97	0.05	257.97	0.003065	0.22	2.75	29.87	0.31
T2	6530.11	100 Year	DonPhaseII_Final_Proposed	0.45	257.90	257.97	0.06	257.97	0.003174	0.24	2.89	30.04	0.32
T2	6530.11	25 Year	DonPhaseII_Final_Baseline	0.36	257.90	257.96	0.05	257.96	0.002963	0.20	2.56	29.63	0.30
T2	6530.11	50 Year	DonPhaseII_Final_Proposed	0.41	257.90	257.97	0.05	257.97	0.003065	0.22	2.75	29.87	0.31
T2	6530.11	10 Year	DonPhaseII_Final_Baseline	0.31	257.90	257.95	0.04	257.95	0.002903	0.17	2.33	29.33	0.28
T2	6530.11	25 Year	DonPhaseII_Final_Proposed	0.36	257.90	257.96	0.05	257.96	0.002963	0.20	2.56	29.63	0.30
T2	6530.11	5 Year	DonPhaseII_Final_Baseline	0.27	257.90	257.94	0.03	257.95	0.002914	0.15	2.13	29.11	0.28
T2	6530.11	10 Year	DonPhaseII_Final_Proposed	0.31	257.90	257.95	0.04	257.95	0.002903	0.17	2.33	29.33	0.28
T2	6530.11	2 Year	DonPhaseII_Final_Baseline	0.20	257.90	257.93	0.02	257.93	0.002899	0.10	1.75	28.71	0.25
T2	6530.11	5 Year	DonPhaseII_Final_Proposed	0.27	257.90	257.94	0.03	257.95	0.002914	0.15	2.13	29.11	0.28
T2	6530.11	2 Year	DonPhaseII_Final_Proposed	0.20	257.90	257.93	0.02	257.93	0.002899	0.10	1.75	28.71	0.25
T2	6466.38	Regional	DonPhaseII_Final_Baseline	18.05	257.31	257.80	0.46	257.92	0.030953	2.52	14.51	40.05	1.18
T2	6466.38	Regional	DonPhaseII_Final_Proposed	18.05	257.31	257.80	0.46	257.92	0.030953	2.52	14.51	40.05	1.18
T2	6466.38	350 Year	DonPhaseII_Final_Baseline	1.91	257.31	257.50	0.16	257.52	0.019638	0.99	3.75	29.71	0.81
T2	6466.38	350 Year	DonPhaseII_Final_Proposed	1.91	257.31	257.50	0.16	257.52	0.019638	0.99	3.75	29.71	0.81
T2	6466.38	100 Year	DonPhaseII_Final_Baseline	0.45	257.31	257.36	0.04	257.38	0.081450	0.78	0.76	14.44	1.31
T2	6466.38	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	257.31	257.38	0.05	257.40	0.054883	0.80	1.07	17.42	1.12
T2	6466.38	50 Year	DonPhaseII_Final_Baseline	0.41	257.31	257.36	0.03	257.38	0.096910	0.77	0.66	13.29	1.40
T2	6466.38	100 Year	DonPhaseII_Final_Proposed	0.45	257.31	257.36	0.04	257.38	0.081450	0.78	0.76	14.44	1.31
T2	6466.38	25 Year	DonPhaseII_Final_Baseline	0.36	257.31	257.35	0.02	257.37	0.118366	0.73	0.56	12.05	1.51
T2	6466.38	50 Year	DonPhaseII_Final_Proposed	0.41	257.31	257.36	0.03	257.38	0.096910	0.77	0.66	13.29	1.40
T2	6466.38	10 Year	DonPhaseII_Final_Baseline	0.31	257.31	257.34	0.02	257.36	0.136546	0.67	0.47	11.19	1.61
T2	6466.38	25 Year	DonPhaseII_Final_Proposed	0.36	257.31	257.35	0.02	257.37	0.118366	0.73	0.56	12.05	1.51
T2	6466.38	5 Year	DonPhaseII_Final_Baseline	0.27	257.31	257.34	0.02	257.36	0.128333	0.60	0.43	10.71	1.56
T2	6466.38	10 Year	DonPhaseII_Final_Proposed	0.31	257.31	257.34	0.02	257.36	0.136546	0.67	0.47	11.19	1.61
T2	6466.38	2 Year	DonPhaseII_Final_Baseline	0.20	257.31	257.33	0.01	257.35	0.134439	0.47	0.33	8.63	1.57
T2	6466.38	5 Year	DonPhaseII_Final_Proposed	0.27	257.31	257.34	0.02	257.36	0.128333	0.60	0.43	10.71	1.56
T2	6466.38	2 Year	DonPhaseII_Final_Proposed	0.20	257.31	257.33	0.01	257.35	0.134439	0.47	0.33	8.63	1.57
T2	6376.17	Regional	DonPhaseII_Final_Baseline	18.05	255.31	256.65	1.28	256.85	0.006178	2.63	19.69	45.24	0.74
T2	6376.17	Regional	DonPhaseII_Final_Proposed	18.05	255.31	256.65	1.28	256.85	0.006178	2.63	19.69	45.24	0.74
T2	6376.17	350 Year	DonPhaseII_Final_Baseline	1.91	255.31	255.72	0.35	255.88	0.016150	1.78	1.24	4.66	0.97
T2	6376.17	350 Year	DonPhaseII_Final_Proposed	1.91	255.31	255.72	0.35	255.88	0.016150	1.78	1.24	4.66	0.97
T2	6376.17	100 Year	DonPhaseII_Final_Baseline	0.45	255.31	255.56	0.18	255.59	0.008445	0.83	0.56	3.51	0.63
T2	6376.17	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	255.31	255.58	0.20	255.63	0.009669	0.96	0.64	3.68	0.68
T2	6376.17	50 Year	DonPhaseII_Final_Baseline	0.41	255.31	255.55	0.17	255.58	0.008016	0.79	0.53	3.46	0.61
T2	6376.17	100 Year	DonPhaseII_Final_Proposed	0.45	255.31	255.56	0.18	255.59	0.008445	0.83	0.56	3.51	0.63
T2	6376.17	25 Year	DonPhaseII_Final_Baseline	0.36	255.31	255.54	0.16	255.57	0.007645	0.74	0.50	3.38	0.59
T2	6376.17	50 Year	DonPhaseII_Final_Proposed	0.41	255.31	255.55	0.17	255.58	0.008016	0.79	0.53	3.46	0.61
T2	6376.17	10 Year	DonPhaseII_Final_Baseline	0.31	255.31	255.53	0.15	255.55	0.007435	0.69	0.45	3.28	0.57
T2	6376.17	25 Year	DonPhaseII_Final_Proposed	0.36	255.31	255.54	0.16	255.57	0.007645	0.74	0.50	3.38	0.59
T2	6376.17	5 Year	DonPhaseII_Final_Baseline	0.27	255.31	255.52	0.14	255.54	0.007389	0.66	0.42	3.19	0.56
T2	6376.17	10 Year	DonPhaseII_Final_Proposed	0.31	255.31	255.53	0.15	255.55	0.007435	0.69	0.45	3.28	0.57
T2	6376.17	2 Year	DonPhaseII_Final_Baseline	0.20	255.31	255.49	0.12	255.51	0.007179	0.58	0.35	3.00	0.54
T2	6376.17	5 Year	DonPhaseII_Final_Proposed	0.27	255.31	255.52	0.14	255.54	0.007389	0.66	0.42	3.19	0.56
T2	6376.17	2 Year	DonPhaseII_Final_Proposed	0.20	255.31	255.49	0.12	255.51	0.007179	0.58	0.35	3.00	0.54
T2	6324.7	Regional	DonPhaseII_Final_Baseline	18.05	254.70	255.85	1.07	256.03	0.005972	2.30	18.78	50.34	0.71
T2	6324.7	Regional	DonPhaseII_Final_Proposed	18.05	254.70	255.85	1.07	256.03	0.005972	2.30	18.78	50.34	0.71
T2	6324.7	350 Year	DonPhaseII_Final_Baseline	1.91	254.70	255.09	0.31	255.16	0.008202	1.18	1.84	7.46	0.68
T2	6324.7	350 Year	DonPhaseII_Final_Proposed	1.91	254.70	255.09	0.31	255.16	0.008202	1.18	1.84	7.46	0.68
T2	6324.7	100 Year	DonPhaseII_Final_Baseline	0.45	254.70	254.87	0.10	254.92	0.023022	0.95	0.47	4.57	0.95
T2	6324.7	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	254.70	254.90	0.12	254.95	0.019013	0.96	0.61	5.06	0.88

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	6324.7	50 Year	DonPhaseII_Final_Baseline	0.41	254.70	254.86	0.10	254.91	0.024847	0.95	0.43	4.37	0.97
T2	6324.7	100 Year	DonPhaseII_Final_Proposed	0.45	254.70	254.87	0.10	254.92	0.023022	0.95	0.47	4.57	0.95
T2	6324.7	25 Year	DonPhaseII_Final_Baseline	0.36	254.70	254.85	0.09	254.90	0.026748	0.95	0.38	4.15	1.00
T2	6324.7	50 Year	DonPhaseII_Final_Proposed	0.41	254.70	254.86	0.10	254.91	0.024847	0.95	0.43	4.37	0.97
T2	6324.7	10 Year	DonPhaseII_Final_Baseline	0.31	254.70	254.84	0.09	254.88	0.027807	0.92	0.34	3.93	1.01
T2	6324.7	25 Year	DonPhaseII_Final_Proposed	0.36	254.70	254.85	0.09	254.90	0.026748	0.95	0.38	4.15	1.00
T2	6324.7	5 Year	DonPhaseII_Final_Baseline	0.27	254.70	254.83	0.08	254.87	0.027759	0.89	0.30	3.76	1.00
T2	6324.7	10 Year	DonPhaseII_Final_Proposed	0.31	254.70	254.84	0.09	254.88	0.027807	0.92	0.34	3.93	1.01
T2	6324.7	2 Year	DonPhaseII_Final_Baseline	0.20	254.70	254.81	0.07	254.85	0.029061	0.83	0.24	3.38	1.00
T2	6324.7	5 Year	DonPhaseII_Final_Proposed	0.27	254.70	254.83	0.08	254.87	0.027759	0.89	0.30	3.76	1.00
T2	6324.7	2 Year	DonPhaseII_Final_Proposed	0.20	254.70	254.81	0.07	254.85	0.029061	0.83	0.24	3.38	1.00
T2	6266.47	Regional	DonPhaseII_Final_Baseline	18.05	254.09	255.35	1.24	255.57	0.009050	3.13	17.00	32.20	0.90
T2	6266.47	Regional	DonPhaseII_Final_Proposed	18.05	254.09	255.35	1.24	255.57	0.009050	3.13	17.00	32.20	0.90
T2	6266.47	350 Year	DonPhaseII_Final_Baseline	1.91	254.09	254.60	0.49	254.69	0.007773	1.56	2.02	6.16	0.71
T2	6266.47	350 Year	DonPhaseII_Final_Proposed	1.91	254.09	254.60	0.49	254.69	0.007773	1.56	2.02	6.16	0.71
T2	6266.47	100 Year	DonPhaseII_Final_Baseline	0.45	254.09	254.37	0.26	254.39	0.004679	0.79	0.80	4.39	0.50
T2	6266.47	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	254.09	254.40	0.29	254.43	0.004986	0.89	0.96	4.67	0.52
T2	6266.47	50 Year	DonPhaseII_Final_Baseline	0.41	254.09	254.36	0.25	254.38	0.004558	0.76	0.76	4.30	0.49
T2	6266.47	100 Year	DonPhaseII_Final_Proposed	0.45	254.09	254.37	0.26	254.39	0.004679	0.79	0.80	4.39	0.50
T2	6266.47	25 Year	DonPhaseII_Final_Baseline	0.36	254.09	254.34	0.23	254.36	0.004457	0.72	0.69	4.17	0.48
T2	6266.47	50 Year	DonPhaseII_Final_Proposed	0.41	254.09	254.36	0.25	254.38	0.004558	0.76	0.76	4.30	0.49
T2	6266.47	10 Year	DonPhaseII_Final_Baseline	0.31	254.09	254.32	0.21	254.34	0.004290	0.67	0.63	4.03	0.46
T2	6266.47	25 Year	DonPhaseII_Final_Proposed	0.36	254.09	254.34	0.23	254.36	0.004457	0.72	0.69	4.17	0.48
T2	6266.47	5 Year	DonPhaseII_Final_Baseline	0.27	254.09	254.31	0.20	254.33	0.004239	0.63	0.57	3.89	0.45
T2	6266.47	10 Year	DonPhaseII_Final_Proposed	0.31	254.09	254.32	0.21	254.34	0.004290	0.67	0.63	4.03	0.46
T2	6266.47	2 Year	DonPhaseII_Final_Baseline	0.20	254.09	254.28	0.17	254.30	0.004015	0.56	0.46	3.63	0.43
T2	6266.47	5 Year	DonPhaseII_Final_Proposed	0.27	254.09	254.31	0.20	254.33	0.004239	0.63	0.57	3.89	0.45
T2	6266.47	2 Year	DonPhaseII_Final_Proposed	0.20	254.09	254.28	0.17	254.30	0.004015	0.56	0.46	3.63	0.43
T2	6206.89	Regional	DonPhaseII_Final_Baseline	18.05	253.62	254.68	0.99	254.80	0.005968	2.19	20.17	38.05	0.70
T2	6206.89	Regional	DonPhaseII_Final_Proposed	18.05	253.62	254.68	0.99	254.80	0.005968	2.19	20.17	38.05	0.70
T2	6206.89	350 Year	DonPhaseII_Final_Baseline	1.91	253.62	253.98	0.30	254.09	0.013993	1.50	1.74	9.82	0.88
T2	6206.89	350 Year	DonPhaseII_Final_Proposed	1.91	253.62	253.98	0.30	254.09	0.013993	1.50	1.74	9.82	0.88
T2	6206.89	100 Year	DonPhaseII_Final_Baseline	0.45	253.62	253.80	0.11	253.85	0.024459	1.04	0.46	4.80	0.99
T2	6206.89	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	253.62	253.82	0.13	253.88	0.022739	1.12	0.56	5.18	0.98
T2	6206.89	50 Year	DonPhaseII_Final_Baseline	0.41	253.62	253.79	0.10	253.84	0.025366	1.01	0.42	4.67	1.00
T2	6206.89	100 Year	DonPhaseII_Final_Proposed	0.45	253.62	253.80	0.11	253.85	0.024459	1.04	0.46	4.80	0.99
T2	6206.89	25 Year	DonPhaseII_Final_Baseline	0.36	253.62	253.78	0.10	253.83	0.025983	0.97	0.38	4.52	0.99
T2	6206.89	50 Year	DonPhaseII_Final_Proposed	0.41	253.62	253.79	0.10	253.84	0.025366	1.01	0.42	4.67	1.00
T2	6206.89	10 Year	DonPhaseII_Final_Baseline	0.31	253.62	253.77	0.09	253.82	0.027392	0.93	0.34	4.35	1.00
T2	6206.89	25 Year	DonPhaseII_Final_Proposed	0.36	253.62	253.78	0.10	253.83	0.025983	0.97	0.38	4.52	0.99
T2	6206.89	5 Year	DonPhaseII_Final_Baseline	0.27	253.62	253.77	0.08	253.80	0.027299	0.88	0.31	4.23	0.99
T2	6206.89	10 Year	DonPhaseII_Final_Proposed	0.31	253.62	253.77	0.09	253.82	0.027392	0.93	0.34	4.35	1.00
T2	6206.89	2 Year	DonPhaseII_Final_Baseline	0.20	253.62	253.75	0.07	253.78	0.029411	0.80	0.25	3.99	0.99
T2	6206.89	5 Year	DonPhaseII_Final_Proposed	0.27	253.62	253.77	0.08	253.80	0.027299	0.88	0.31	4.23	0.99
T2	6206.89	2 Year	DonPhaseII_Final_Proposed	0.20	253.62	253.75	0.07	253.78	0.029411	0.80	0.25	3.99	0.99
T2	6166.45	Regional	DonPhaseII_Final_Baseline	18.05	253.28	254.55	1.24	254.64	0.002918	1.78	27.20	49.80	0.51
T2	6166.45	Regional	DonPhaseII_Final_Proposed	18.05	253.28	254.55	1.24	254.64	0.002918	1.78	27.20	49.80	0.51
T2	6166.45	350 Year	DonPhaseII_Final_Baseline	1.91	253.28	253.80	0.48	253.83	0.002467	0.87	3.03	9.43	0.40
T2	6166.45	350 Year	DonPhaseII_Final_Proposed	1.91	253.28	253.80	0.48	253.83	0.002467	0.87	3.03	9.43	0.40
T2	6166.45	100 Year	DonPhaseII_Final_Baseline	0.45	253.28	253.54	0.23	253.55	0.001996	0.48	1.10	6.13	0.32
T2	6166.45	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	253.28	253.57	0.26	253.59	0.002050	0.53	1.31	6.51	0.33
T2	6166.45	50 Year	DonPhaseII_Final_Baseline	0.41	253.28	253.53	0.22	253.54	0.001982	0.46	1.03	6.01	0.31
T2	6166.45	100 Year	DonPhaseII_Final_Proposed	0.45	253.28	253.54	0.23	253.55	0.001996	0.48	1.10	6.13	0.32
T2	6166.45	25 Year	DonPhaseII_Final_Baseline	0.36	253.28	253.51	0.20	253.52	0.001946	0.43	0.94	5.86	0.31
T2	6166.45	50 Year	DonPhaseII_Final_Proposed	0.41	253.28	253.53	0.22	253.54	0.001982	0.46	1.03	6.01	0.31
T2	6166.45	10 Year	DonPhaseII_Final_Baseline	0.31	253.28	253.50	0.19	253.51	0.001914	0.41	0.85	5.69	0.30
T2	6166.45	25 Year	DonPhaseII_Final_Proposed	0.36	253.28	253.51	0.20	253.52	0.001946	0.43	0.94	5.86	0.31
T2	6166.45	5 Year	DonPhaseII_Final_Baseline	0.27	253.28	253.49	0.17	253.49	0.001885	0.38	0.78	5.54	0.30
T2	6166.45	10 Year	DonPhaseII_Final_Proposed	0.31	253.28	253.50	0.19	253.51	0.001914	0.41	0.85	5.69	0.30
T2	6166.45	2 Year	DonPhaseII_Final_Baseline	0.20	253.28	253.46	0.15	253.46	0.001837	0.34	0.63	5.20	0.28
T2	6166.45	5 Year	DonPhaseII_Final_Proposed	0.27	253.28	253.49	0.17	253.49	0.001885	0.38	0.78	5.54	0.30
T2	6166.45	2 Year	DonPhaseII_Final_Proposed	0.20	253.28	253.46	0.15	253.46	0.001837	0.34	0.63	5.20	0.28
T2	6114.54	Regional	DonPhaseII_Final_Baseline	18.05	253.06	254.11	1.02	254.35	0.012299	3.20	14.34	26.31	1.01
T2	6114.54	Regional	DonPhaseII_Final_Proposed	18.05	253.06	254.11	1.02	254.35	0.012299	3.20	14.34	26.31	1.01
T2	6114.54	350 Year	DonPhaseII_Final_Baseline	1.91	253.06	253.47	0.38	253.58	0.012770	1.68	2.10	11.99	0.87
T2	6114.54	350 Year	DonPhaseII_Final_Proposed	1.91	253.06	253.47	0.38	253.58	0.012770	1.68	2.10	11.99	0.87
T2	6114.54	100 Year	DonPhaseII_Final_Baseline	0.45	253.06	253.24	0.15	253.30	0.020962	1.17	0.49	4.53	0.96
T2	6114.54	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	253.06	253.27	0.18	253.34	0.019765	1.26	0.61	4.99	0.96
T2	6114.54	50 Year	DonPhaseII_Final_Baseline	0.41	253.06	253.23	0.14	253.29	0.021195	1.13	0.45	4.39	0.96
T2	6114.54	100 Year	DonPhaseII_Final_Proposed	0.45	253.06	253.24	0.15	253.30	0.020962	1.17	0.49	4.53	0.96
T2	6114.54	25 Year	DonPhaseII_Final_Baseline	0.36	253.06	253.22	0.13	253.28	0.022717	1.10	0.40	4.14	0.98
T2	6114.54	50 Year	DonPhaseII_Final_Proposed	0.41	253.06	253.23	0.14	253.29	0.021195	1.13	0.45	4.39	0.96
T2	6114.54	10 Year	DonPhaseII_Final_Baseline	0.31	253.06	253.21	0.12	253.26	0.023015	1.05	0.35	3.92	0.97
T2	6114.54	25 Year	DonPhaseII_Final_Proposed	0.36	253.06	253.22	0.13	253.28	0.022717	1.10	0.40	4.14	0.98
T2	6114.54	5 Year	DonPhaseII_Final_Baseline	0.27	253.06	253.20	0.11	253.25	0.024188	1.01	0.31	3.71	0.98
T2	6114.54	10 Year	DonPhaseII_Final_Proposed	0.31	253.06	253.21	0.12	253.26	0.023015	1.05	0.35	3.92	0.97
T2	6114.54	2 Year	DonPhaseII_Final_Baseline	0.20	253.06	253.18	0.09	253.22	0.026370	0.92	0.24	3.32	0.99
T2	6114.54	5 Year	DonPhaseII_Final_Proposed	0.27	253.06	253.20	0.11	253.25	0.024188	1.01	0.31	3.71	0.98
T2	6114.54	2 Year	DonPhaseII_Final_Proposed	0.20	253.06	253.18	0.09	253.22	0.026370	0.92	0.24	3.32	0.99
T2	6070.28	Regional	DonPhaseII_Final_Baseline	18.05	252.67	253.62	0.90	253.81	0.011747	2.88	13.96	22.01	0.97
T2	6070.28	Regional	DonPhaseII_Final_Proposed	18.05	252.67	253.62	0.90	253.81	0.011747	2.88	13.96	22.01	0.97
T2	6070.28	350 Year	DonPhaseII_Final_Baseline	1.91	252.67	253.14	0.42	253.17	0.003153	0.90	4.48	17.33	0.44
T2	6070.28	350 Year	DonPhaseII_Final_Proposed	1.91	252.67	253.14	0.42	253.17	0.003153	0.90	4.48	17.33	0.44
T2	6070.28	100 Year	DonPhaseII_Final_Baseline	0.45	252.67	252.96	0.24	252.97	0.002275	0.52	1.58	13.11	0.34
T2	6070.28	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	252.67	252.99	0.27	253.00	0.002364	0.57	1.96	14.19	0.36
T2	6070.28	50 Year	DonPhaseII_Final_Baseline	0.41	252.67	252.95	0.23	252.96	0.002279	0.51	1.45	12.79	0.34
T2	6070.28	100 Year	DonPhaseII_Final_Proposed	0.45	252.67	252.96	0.24	252.97	0.002275	0.52	1.58	13.11	0.34
T2	6070.28	25 Year	DonPhaseII_Final_Baseline	0.36	252.67	252.94	0.22	252.95	0.002222	0.48	1.30	12.28	0.33
T2	6070.28	50 Year	DonPhaseII_Final_Proposed	0.41	252.67	252.95	0.23	252.96	0.002279	0.51	1.45	12.79	0.34
T2	6070.28	10 Year	DonPhaseII_Final_Baseline	0.31	252.67	252.92	0.20	252.93	0.002203	0.46	1.14	11.69	0.33
T2	6070.28	25 Year	DonPhaseII_Final_Proposed	0.36	252.67	252.94	0.22	252.95	0.002222	0.48	1.30	12.28	0.33
T2	6070.28	5 Year	DonPhaseII_Final_Baseline	0.27	252.67	252.91	0.19	252.92	0.002158	0.44	1.00	10.38	0.32

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	6070.28	10 Year	DonPhaseII_Final_Proposed	0.31	252.67	252.92	0.20	252.93	0.002203	0.46	1.14	11.69	0.33
T2	6070.28	2 Year	DonPhaseII_Final_Baseline	0.20	252.67	252.88	0.16	252.89	0.001996	0.38	0.77	8.00	0.30
T2	6070.28	5 Year	DonPhaseII_Final_Proposed	0.27	252.67	252.91	0.19	252.92	0.002158	0.44	1.00	10.38	0.32
T2	6070.28	2 Year	DonPhaseII_Final_Proposed	0.20	252.67	252.88	0.16	252.89	0.001996	0.38	0.77	8.00	0.30
T2	6014.41	Regional	DonPhaseII_Final_Baseline	18.05	252.56	253.14	0.58	253.19	0.009208	1.90	21.68	42.48	0.80
T2	6014.41	Regional	DonPhaseII_Final_Proposed	18.05	252.56	253.14	0.58	253.19	0.009208	1.90	21.68	42.48	0.80
T2	6014.41	350 Year	DonPhaseII_Final_Baseline	1.91	252.56	252.64	0.07	252.68	0.085698	1.47	2.35	31.98	1.73
T2	6014.41	350 Year	DonPhaseII_Final_Proposed	1.91	252.56	252.64	0.07	252.68	0.085698	1.47	2.35	31.98	1.73
T2	6014.41	100 Year	DonPhaseII_Final_Baseline	0.45	252.56	252.54		252.58	0.164680		0.55	8.63	0.00
T2	6014.41	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	252.56	252.56		252.59	0.152748		0.68	9.09	0.00
T2	6014.41	50 Year	DonPhaseII_Final_Baseline	0.41	252.56	252.54		252.57	0.157361		0.53	8.55	0.00
T2	6014.41	100 Year	DonPhaseII_Final_Proposed	0.45	252.56	252.54		252.58	0.164680		0.55	8.63	0.00
T2	6014.41	25 Year	DonPhaseII_Final_Baseline	0.36	252.56	252.53		252.56	0.161325		0.48	8.40	0.00
T2	6014.41	50 Year	DonPhaseII_Final_Proposed	0.41	252.56	252.54		252.57	0.157361		0.53	8.55	0.00
T2	6014.41	10 Year	DonPhaseII_Final_Baseline	0.31	252.56	252.53		252.55	0.165902		0.43	8.25	0.00
T2	6014.41	25 Year	DonPhaseII_Final_Proposed	0.36	252.56	252.53		252.56	0.161325		0.48	8.40	0.00
T2	6014.41	5 Year	DonPhaseII_Final_Baseline	0.27	252.56	252.52		252.55	0.171686		0.39	8.11	0.00
T2	6014.41	10 Year	DonPhaseII_Final_Proposed	0.31	252.56	252.53		252.55	0.165902		0.43	8.25	0.00
T2	6014.41	2 Year	DonPhaseII_Final_Baseline	0.20	252.56	252.51		252.53	0.226158		0.30	7.78	0.00
T2	6014.41	5 Year	DonPhaseII_Final_Proposed	0.27	252.56	252.52		252.55	0.171686		0.39	8.11	0.00
T2	6014.41	2 Year	DonPhaseII_Final_Proposed	0.20	252.56	252.51		252.53	0.226158		0.30	7.78	0.00
T2	5966.37	Regional	DonPhaseII_Final_Baseline	18.05	252.09	253.01	0.90	253.03	0.001545	1.04	38.60	48.20	0.35
T2	5966.37	Regional	DonPhaseII_Final_Proposed	18.05	252.09	253.01	0.90	253.03	0.001545	1.04	38.60	48.20	0.35
T2	5966.37	350 Year	DonPhaseII_Final_Baseline	1.91	252.09	252.31	0.20	252.31	0.002274	0.46	8.10	37.60	0.33
T2	5966.37	350 Year	DonPhaseII_Final_Proposed	1.91	252.09	252.31	0.20	252.31	0.002274	0.46	8.10	37.60	0.33
T2	5966.37	100 Year	DonPhaseII_Final_Baseline	0.45	252.09	252.17	0.06	252.17	0.002300	0.20	3.17	30.93	0.27
T2	5966.37	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	252.09	252.19	0.08	252.19	0.002162	0.24	3.82	32.83	0.28
T2	5966.37	50 Year	DonPhaseII_Final_Baseline	0.41	252.09	252.16	0.05	252.16	0.002479	0.19	2.91	30.16	0.27
T2	5966.37	100 Year	DonPhaseII_Final_Proposed	0.45	252.09	252.17	0.06	252.17	0.002300	0.20	3.17	30.93	0.27
T2	5966.37	25 Year	DonPhaseII_Final_Baseline	0.36	252.09	252.15	0.04	252.15	0.002554	0.17	2.66	29.37	0.27
T2	5966.37	50 Year	DonPhaseII_Final_Proposed	0.41	252.09	252.16	0.05	252.16	0.002479	0.19	2.91	30.16	0.27
T2	5966.37	10 Year	DonPhaseII_Final_Baseline	0.31	252.09	252.14	0.03	252.14	0.002607	0.15	2.41	28.43	0.26
T2	5966.37	25 Year	DonPhaseII_Final_Proposed	0.36	252.09	252.15	0.04	252.15	0.002554	0.17	2.66	29.37	0.27
T2	5966.37	5 Year	DonPhaseII_Final_Baseline	0.27	252.09	252.14	0.03	252.14	0.002624	0.14	2.21	27.88	0.26
T2	5966.37	10 Year	DonPhaseII_Final_Proposed	0.31	252.09	252.14	0.03	252.14	0.002607	0.15	2.41	28.43	0.26
T2	5966.37	2 Year	DonPhaseII_Final_Baseline	0.20	252.09	252.12	0.02	252.12	0.002520	0.11	1.86	27.46	0.24
T2	5966.37	5 Year	DonPhaseII_Final_Proposed	0.27	252.09	252.14	0.03	252.14	0.002624	0.14	2.21	27.88	0.26
T2	5966.37	2 Year	DonPhaseII_Final_Proposed	0.20	252.09	252.12	0.02	252.12	0.002520	0.11	1.86	27.46	0.24
T2	5863.08	Regional	DonPhaseII_Final_Baseline	18.05	251.59	253.01	1.41	253.01	0.000044	0.24	178.41	158.07	0.06
T2	5863.08	Regional	DonPhaseII_Final_Proposed	18.05	251.59	253.01	1.41	253.01	0.000044	0.24	178.41	158.07	0.06
T2	5863.08	350 Year	DonPhaseII_Final_Baseline	1.91	251.59	251.71	0.11	251.74	0.046066	1.44	3.44	49.57	1.36
T2	5863.08	350 Year	DonPhaseII_Final_Proposed	1.91	251.59	251.71	0.11	251.74	0.046066	1.44	3.44	49.57	1.36
T2	5863.08	100 Year	DonPhaseII_Final_Baseline	0.45	251.59	251.66	0.07	251.68	0.027001	0.79	1.46	38.88	0.96
T2	5863.08	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	251.59	251.67	0.07	251.69	0.037207	0.96	1.58	39.54	1.14
T2	5863.08	50 Year	DonPhaseII_Final_Baseline	0.41	251.59	251.67	0.07	251.68	0.020291	0.70	1.52	39.20	0.84
T2	5863.08	100 Year	DonPhaseII_Final_Proposed	0.45	251.59	251.66	0.07	251.68	0.027001	0.79	1.46	38.88	0.96
T2	5863.08	25 Year	DonPhaseII_Final_Baseline	0.36	251.59	251.66	0.07	251.67	0.017889	0.64	1.44	38.77	0.78
T2	5863.08	50 Year	DonPhaseII_Final_Proposed	0.41	251.59	251.67	0.07	251.68	0.020291	0.70	1.52	39.20	0.84
T2	5863.08	10 Year	DonPhaseII_Final_Baseline	0.31	251.59	251.66	0.07	251.67	0.016602	0.60	1.33	38.08	0.75
T2	5863.08	25 Year	DonPhaseII_Final_Proposed	0.36	251.59	251.66	0.07	251.67	0.017889	0.64	1.44	38.77	0.78
T2	5863.08	5 Year	DonPhaseII_Final_Baseline	0.27	251.59	251.66	0.06	251.66	0.016107	0.57	1.19	36.71	0.73
T2	5863.08	10 Year	DonPhaseII_Final_Proposed	0.31	251.59	251.66	0.07	251.67	0.016602	0.60	1.33	38.08	0.75
T2	5863.08	2 Year	DonPhaseII_Final_Baseline	0.20	251.59	251.65	0.05	251.66	0.017533	0.53	0.88	31.11	0.74
T2	5863.08	5 Year	DonPhaseII_Final_Proposed	0.27	251.59	251.66	0.06	251.66	0.016107	0.57	1.19	36.71	0.73
T2	5863.08	2 Year	DonPhaseII_Final_Proposed	0.20	251.59	251.65	0.05	251.66	0.017533	0.53	0.88	31.11	0.74
T2	5840.04	Regional	DonPhaseII_Final_Baseline	20.30	251.13	252.96	1.75	253.00	0.000809	0.93	26.58	102.85	0.22
T2	5840.04	Regional	DonPhaseII_Final_Proposed	20.30	251.13	252.96	1.75	253.00	0.000809	0.93	26.58	102.85	0.22
T2	5840.04	350 Year	DonPhaseII_Final_Baseline	2.58	251.13	251.60	0.38	251.61	0.002327	0.60	5.12	39.00	0.31
T2	5840.04	350 Year	DonPhaseII_Final_Proposed	2.58	251.13	251.60	0.38	251.61	0.002327	0.60	5.12	39.00	0.31
T2	5840.04	100 Year	DonPhaseII_Final_Baseline	0.96	251.13	251.34	0.13	251.36	0.010413	0.72	1.60	24.07	0.64
T2	5840.04	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	251.13	251.40	0.18	251.41	0.005859	0.64	2.31	25.90	0.47
T2	5840.04	50 Year	DonPhaseII_Final_Baseline	0.79	251.13	251.30	0.08	251.33	0.023858	0.93	1.05	16.51	1.03
T2	5840.04	100 Year	DonPhaseII_Final_Proposed	0.96	251.13	251.34	0.13	251.36	0.010413	0.72	1.60	24.07	0.64
T2	5840.04	25 Year	DonPhaseII_Final_Baseline	0.57	251.13	251.27	0.07	251.31	0.029195	0.95	0.78	13.53	1.14
T2	5840.04	50 Year	DonPhaseII_Final_Proposed	0.79	251.13	251.30	0.08	251.33	0.023858	0.93	1.05	16.51	1.03
T2	5840.04	10 Year	DonPhaseII_Final_Baseline	0.35	251.13	251.25	0.06	251.28	0.038888	0.93	0.50	9.53	1.18
T2	5840.04	25 Year	DonPhaseII_Final_Proposed	0.57	251.13	251.27	0.07	251.31	0.029195	0.95	0.78	13.53	1.14
T2	5840.04	5 Year	DonPhaseII_Final_Baseline	0.29	251.13	251.24	0.06	251.27	0.042674	0.90	0.42	8.36	1.18
T2	5840.04	10 Year	DonPhaseII_Final_Proposed	0.35	251.13	251.25	0.06	251.28	0.038888	0.93	0.50	9.53	1.18
T2	5840.04	2 Year	DonPhaseII_Final_Baseline	0.21	251.13	251.23	0.05	251.25	0.037895	0.79	0.35	7.81	1.09
T2	5840.04	5 Year	DonPhaseII_Final_Proposed	0.29	251.13	251.24	0.06	251.27	0.042674	0.90	0.42	8.36	1.18
T2	5840.04	2 Year	DonPhaseII_Final_Proposed	0.21	251.13	251.23	0.05	251.25	0.037895	0.79	0.35	7.81	1.09
T2	5818.14			Culvert									
T2	5794.32	Regional	DonPhaseII_Final_Baseline	20.30	251.05	252.34	1.29	252.50	0.006055	2.63	16.31	32.41	0.74
T2	5794.32	Regional	DonPhaseII_Final_Proposed	20.30	251.05	252.34	1.29	252.50	0.006055	2.63	16.31	32.41	0.74
T2	5794.32	350 Year	DonPhaseII_Final_Baseline	2.58	251.05	251.44	0.38	251.51	0.011351	1.61	3.09	11.73	0.83
T2	5794.32	350 Year	DonPhaseII_Final_Proposed	2.58	251.05	251.44	0.38	251.51	0.011351	1.61	3.09	11.73	0.83
T2	5794.32	100 Year	DonPhaseII_Final_Baseline	0.96	251.05	251.25	0.19	251.30	0.019554	1.32	1.29	8.14	0.97
T2	5794.32	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	251.05	251.28	0.23	251.34	0.017689	1.41	1.60	8.53	0.95
T2	5794.32	50 Year	DonPhaseII_Final_Baseline	0.79	251.05	251.22	0.17	251.27	0.021291	1.26	1.10	7.91	0.99
T2	5794.32	100 Year	DonPhaseII_Final_Proposed	0.96	251.05	251.25	0.19	251.30	0.019554	1.32	1.29	8.14	0.97
T2	5794.32	25 Year	DonPhaseII_Final_Baseline	0.57	251.05	251.19	0.13	251.23	0.023644	1.15	0.86	7.59	1.00
T2	5794.32	50 Year	DonPhaseII_Final_Proposed	0.79	251.05	251.22	0.17	251.27	0.021291	1.26	1.10	7.91	0.99
T2	5794.32	10 Year	DonPhaseII_Final_Baseline	0.35	251.05	251.16	0.10	251.19	0.024603	0.97	0.61	7.13	0.98
T2	5794.32	25 Year	DonPhaseII_Final_Proposed	0.57	251.05	251.19	0.13	251.23	0.023644	1.15	0.86	7.59	1.00
T2	5794.32	5 Year	DonPhaseII_Final_Baseline	0.29	251.05	251.15	0.09	251.17	0.025764	0.92	0.53	6.96	0.98
T2	5794.32	10 Year	DonPhaseII_Final_Proposed	0.35	251.05	251.16	0.10	251.19	0.024603	0.97	0.61	7.13	0.98
T2	5794.32	2 Year	DonPhaseII_Final_Baseline	0.21	251.05	251.13	0.08	251.15	0.023933	0.80	0.44	6.75	0.92
T2	5794.32	5 Year	DonPhaseII_Final_Proposed	0.29	251.05	251.15	0.09	251.17	0.025764	0.92	0.53	6.96	0.98
T2	5794.32	2 Year	DonPhaseII_Final_Proposed	0.21	251.05	251.13	0.08	251.15	0.023933	0.80	0.44	6.75	0.92

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	5778.37	Regional	DonPhaseII_Final_Baseline	20.30	250.71	252.06	1.31	252.34	0.007945	3.05	16.13	27.16	0.85
T2	5778.37	Regional	DonPhaseII_Final_Proposed	20.30	250.71	252.06	1.31	252.34	0.007945	3.05	16.13	27.16	0.85
T2	5778.37	350 Year	DonPhaseII_Final_Baseline	2.58	250.71	251.21	0.46	251.33	0.009611	1.67	2.14	6.35	0.78
T2	5778.37	350 Year	DonPhaseII_Final_Proposed	2.58	250.71	251.21	0.46	251.33	0.009611	1.67	2.14	6.35	0.78
T2	5778.37	100 Year	DonPhaseII_Final_Baseline	0.96	250.71	251.01	0.26	251.08	0.010197	1.18	1.00	5.06	0.74
T2	5778.37	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	250.71	251.06	0.31	251.13	0.009777	1.28	1.24	5.35	0.74
T2	5778.37	50 Year	DonPhaseII_Final_Baseline	0.79	250.71	250.98	0.23	251.04	0.010352	1.10	0.86	4.87	0.73
T2	5778.37	100 Year	DonPhaseII_Final_Proposed	0.96	250.71	251.01	0.26	251.08	0.010197	1.18	1.00	5.06	0.74
T2	5778.37	25 Year	DonPhaseII_Final_Baseline	0.57	250.71	250.94	0.19	250.99	0.010722	0.98	0.67	4.58	0.72
T2	5778.37	50 Year	DonPhaseII_Final_Proposed	0.79	250.71	250.98	0.23	251.04	0.010352	1.10	0.86	4.87	0.73
T2	5778.37	10 Year	DonPhaseII_Final_Baseline	0.35	250.71	250.89	0.14	250.93	0.011791	0.84	0.45	3.96	0.71
T2	5778.37	25 Year	DonPhaseII_Final_Proposed	0.57	250.71	250.94	0.19	250.99	0.010722	0.98	0.67	4.58	0.72
T2	5778.37	5 Year	DonPhaseII_Final_Baseline	0.29	250.71	250.88	0.13	250.91	0.011715	0.78	0.40	3.76	0.70
T2	5778.37	10 Year	DonPhaseII_Final_Proposed	0.35	250.71	250.89	0.14	250.93	0.011791	0.84	0.45	3.96	0.71
T2	5778.37	2 Year	DonPhaseII_Final_Baseline	0.21	250.71	250.85	0.10	250.88	0.013086	0.71	0.31	3.36	0.71
T2	5778.37	5 Year	DonPhaseII_Final_Proposed	0.29	250.71	250.88	0.13	250.91	0.011715	0.78	0.40	3.76	0.70
T2	5778.37	2 Year	DonPhaseII_Final_Proposed	0.21	250.71	250.85	0.10	250.88	0.013086	0.71	0.31	3.36	0.71
T2	5721.18	Regional	DonPhaseII_Final_Baseline	20.30	250.11	251.38	1.25	251.66	0.010760	3.44	15.24	23.09	0.98
T2	5721.18	Regional	DonPhaseII_Final_Proposed	20.30	250.11	251.38	1.25	251.66	0.010760	3.44	15.24	23.09	0.98
T2	5721.18	350 Year	DonPhaseII_Final_Baseline	2.58	250.11	250.54	0.41	250.66	0.014577	1.90	2.37	7.39	0.95
T2	5721.18	350 Year	DonPhaseII_Final_Proposed	2.58	250.11	250.54	0.41	250.66	0.014577	1.90	2.37	7.39	0.95
T2	5721.18	100 Year	DonPhaseII_Final_Baseline	0.96	250.11	250.38	0.25	250.44	0.012195	1.25	1.27	6.38	0.80
T2	5721.18	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	250.11	250.41	0.28	250.48	0.013240	1.41	1.48	6.59	0.85
T2	5721.18	50 Year	DonPhaseII_Final_Baseline	0.79	250.11	250.36	0.23	250.41	0.011711	1.15	1.13	6.24	0.77
T2	5721.18	100 Year	DonPhaseII_Final_Proposed	0.96	250.11	250.38	0.25	250.44	0.012195	1.25	1.27	6.38	0.80
T2	5721.18	25 Year	DonPhaseII_Final_Baseline	0.57	250.11	250.32	0.19	250.36	0.011037	1.00	0.92	5.95	0.73
T2	5721.18	50 Year	DonPhaseII_Final_Proposed	0.79	250.11	250.36	0.23	250.41	0.011711	1.15	1.13	6.24	0.77
T2	5721.18	10 Year	DonPhaseII_Final_Baseline	0.35	250.11	250.28	0.15	250.31	0.009876	0.81	0.68	5.60	0.66
T2	5721.18	25 Year	DonPhaseII_Final_Proposed	0.57	250.11	250.32	0.19	250.36	0.011037	1.00	0.92	5.95	0.73
T2	5721.18	5 Year	DonPhaseII_Final_Baseline	0.29	250.11	250.27	0.14	250.29	0.009821	0.75	0.60	5.43	0.65
T2	5721.18	10 Year	DonPhaseII_Final_Proposed	0.35	250.11	250.28	0.15	250.31	0.009876	0.81	0.68	5.60	0.66
T2	5721.18	2 Year	DonPhaseII_Final_Baseline	0.21	250.11	250.25	0.12	250.27	0.008759	0.64	0.50	5.19	0.60
T2	5721.18	5 Year	DonPhaseII_Final_Proposed	0.29	250.11	250.27	0.14	250.29	0.009821	0.75	0.60	5.43	0.65
T2	5721.18	2 Year	DonPhaseII_Final_Proposed	0.21	250.11	250.25	0.12	250.27	0.008759	0.64	0.50	5.19	0.60
T2	5666.73	Regional	DonPhaseII_Final_Baseline	20.30	249.28	250.45	1.12	250.80	0.010509	3.15	12.20	18.02	0.95
T2	5666.73	Regional	DonPhaseII_Final_Proposed	20.30	249.28	250.45	1.12	250.80	0.010509	3.15	12.20	18.02	0.95
T2	5666.73	350 Year	DonPhaseII_Final_Baseline	2.58	249.28	249.68	0.35	249.83	0.016005	1.78	1.79	6.89	0.97
T2	5666.73	350 Year	DonPhaseII_Final_Proposed	2.58	249.28	249.68	0.35	249.83	0.016005	1.78	1.79	6.89	0.97
T2	5666.73	100 Year	DonPhaseII_Final_Baseline	0.96	249.28	249.52	0.19	249.60	0.019644	1.30	0.81	5.32	0.96
T2	5666.73	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	249.28	249.55	0.22	249.65	0.017832	1.40	1.01	5.67	0.95
T2	5666.73	50 Year	DonPhaseII_Final_Baseline	0.79	249.28	249.49	0.16	249.57	0.020889	1.23	0.69	5.06	0.97
T2	5666.73	100 Year	DonPhaseII_Final_Proposed	0.96	249.28	249.52	0.19	249.60	0.019644	1.30	0.81	5.32	0.96
T2	5666.73	25 Year	DonPhaseII_Final_Baseline	0.57	249.28	249.46	0.13	249.53	0.022519	1.11	0.54	4.70	0.98
T2	5666.73	50 Year	DonPhaseII_Final_Proposed	0.79	249.28	249.49	0.16	249.57	0.020889	1.23	0.69	5.06	0.97
T2	5666.73	10 Year	DonPhaseII_Final_Baseline	0.35	249.28	249.43	0.09	249.47	0.026820	0.97	0.37	4.26	1.01
T2	5666.73	25 Year	DonPhaseII_Final_Proposed	0.57	249.28	249.46	0.13	249.53	0.022519	1.11	0.54	4.70	0.98
T2	5666.73	5 Year	DonPhaseII_Final_Baseline	0.29	249.28	249.42	0.08	249.46	0.027078	0.90	0.33	4.14	0.99
T2	5666.73	10 Year	DonPhaseII_Final_Proposed	0.35	249.28	249.43	0.09	249.47	0.026820	0.97	0.37	4.26	1.01
T2	5666.73	2 Year	DonPhaseII_Final_Baseline	0.21	249.28	249.40	0.07	249.43	0.032966	0.84	0.25	3.92	1.05
T2	5666.73	5 Year	DonPhaseII_Final_Proposed	0.29	249.28	249.42	0.08	249.46	0.027078	0.90	0.33	4.14	0.99
T2	5666.73	2 Year	DonPhaseII_Final_Proposed	0.21	249.28	249.40	0.07	249.43	0.032966	0.84	0.25	3.92	1.05
T2	5614.92	Regional	DonPhaseII_Final_Baseline	20.30	249.02	249.95	0.88	250.06	0.004407	1.55	14.12	18.94	0.53
T2	5614.92	Regional	DonPhaseII_Final_Proposed	20.30	249.02	249.95	0.88	250.06	0.004407	1.55	14.12	18.94	0.53
T2	5614.92	350 Year	DonPhaseII_Final_Baseline	2.58	249.02	249.45	0.38	249.46	0.001021	0.43	5.75	15.05	0.22
T2	5614.92	350 Year	DonPhaseII_Final_Proposed	2.58	249.02	249.45	0.38	249.46	0.001021	0.43	5.75	15.05	0.22
T2	5614.92	100 Year	DonPhaseII_Final_Baseline	0.96	249.02	249.24	0.16	249.25	0.001418	0.30	2.69	13.80	0.24
T2	5614.92	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	249.02	249.28	0.21	249.29	0.001298	0.33	3.29	14.07	0.23
T2	5614.92	50 Year	DonPhaseII_Final_Baseline	0.79	249.02	249.21	0.14	249.22	0.001529	0.28	2.30	13.63	0.24
T2	5614.92	100 Year	DonPhaseII_Final_Proposed	0.96	249.02	249.24	0.16	249.25	0.001418	0.30	2.69	13.80	0.24
T2	5614.92	25 Year	DonPhaseII_Final_Baseline	0.57	249.02	249.17	0.10	249.18	0.001663	0.24	1.79	13.39	0.25
T2	5614.92	50 Year	DonPhaseII_Final_Proposed	0.79	249.02	249.21	0.14	249.22	0.001529	0.28	2.30	13.63	0.24
T2	5614.92	10 Year	DonPhaseII_Final_Baseline	0.35	249.02	249.13	0.06	249.13	0.002037	0.20	1.18	11.75	0.26
T2	5614.92	25 Year	DonPhaseII_Final_Proposed	0.57	249.02	249.17	0.10	249.18	0.001663	0.24	1.79	13.39	0.25
T2	5614.92	5 Year	DonPhaseII_Final_Baseline	0.29	249.02	249.11	0.06	249.11	0.002125	0.19	1.01	11.08	0.26
T2	5614.92	10 Year	DonPhaseII_Final_Proposed	0.35	249.02	249.13	0.06	249.13	0.002037	0.20	1.18	11.75	0.26
T2	5614.92	2 Year	DonPhaseII_Final_Baseline	0.21	249.02	249.09	0.04	249.09	0.002398	0.17	0.77	10.04	0.27
T2	5614.92	5 Year	DonPhaseII_Final_Proposed	0.29	249.02	249.11	0.06	249.11	0.002125	0.19	1.01	11.08	0.26
T2	5614.92	2 Year	DonPhaseII_Final_Proposed	0.21	249.02	249.09	0.04	249.09	0.002398	0.17	0.77	10.04	0.27
T2	5588.7	Regional	DonPhaseII_Final_Baseline	20.30	248.79	249.68	0.78	249.87	0.012534	2.67	19.29	53.72	0.97
T2	5588.7	Regional	DonPhaseII_Final_Proposed	20.30	248.79	249.68	0.78	249.87	0.012534	2.67	19.29	53.72	0.97
T2	5588.7	350 Year	DonPhaseII_Final_Baseline	2.58	248.79	249.23	0.32	249.38	0.017092	1.73	1.52	11.96	0.98
T2	5588.7	350 Year	DonPhaseII_Final_Proposed	2.58	248.79	249.23	0.32	249.38	0.017092	1.73	1.52	11.96	0.98
T2	5588.7	100 Year	DonPhaseII_Final_Baseline	0.96	248.79	249.10	0.20	249.16	0.012304	1.07	0.90	10.49	0.76
T2	5588.7	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	248.79	249.13	0.23	249.21	0.012538	1.18	1.06	10.92	0.79
T2	5588.7	50 Year	DonPhaseII_Final_Baseline	0.79	248.79	249.08	0.18	249.13	0.011223	0.96	0.82	10.27	0.72
T2	5588.7	100 Year	DonPhaseII_Final_Proposed	0.96	248.79	249.10	0.20	249.16	0.012304	1.07	0.90	10.49	0.76
T2	5588.7	25 Year	DonPhaseII_Final_Baseline	0.57	248.79	249.05	0.16	249.09	0.010733	0.85	0.67	9.80	0.69
T2	5588.7	50 Year	DonPhaseII_Final_Proposed	0.79	248.79	249.08	0.18	249.13	0.011223	0.96	0.82	10.27	0.72
T2	5588.7	10 Year	DonPhaseII_Final_Baseline	0.35	248.79	248.99	0.13	249.02	0.012023	0.80	0.44	8.18	0.71
T2	5588.7	25 Year	DonPhaseII_Final_Proposed	0.57	248.79	249.05	0.16	249.09	0.010733	0.85	0.67	9.80	0.69
T2	5588.7	5 Year	DonPhaseII_Final_Baseline	0.29	248.79	248.97	0.12	249.00	0.012154	0.77	0.38	7.72	0.70
T2	5588.7	10 Year	DonPhaseII_Final_Proposed	0.35	248.79	248.99	0.13	249.02	0.012023	0.80	0.44	8.18	0.71
T2	5588.7	2 Year	DonPhaseII_Final_Baseline	0.21	248.79	248.94	0.11	248.97	0.012284	0.72	0.29	7.10	0.69
T2	5588.7	5 Year	DonPhaseII_Final_Proposed	0.29	248.79	248.97	0.12	249.00	0.012154	0.77	0.38	7.72	0.70
T2	5588.7	2 Year	DonPhaseII_Final_Proposed	0.21	248.79	248.94	0.11	248.97	0.012284	0.72	0.29	7.10	0.69
T2	5565.95	Regional	DonPhaseII_Final_Baseline	20.30	248.54	249.00	0.44	249.03	0.010404	1.47	28.33	77.50	0.71
T2	5565.95	Regional	DonPhaseII_Final_Proposed	20.30	248.54	249.00	0.44	249.03	0.010404	1.47	28.33	77.50	0.71
T2	5565.95	350 Year	DonPhaseII_Final_Baseline	2.58	248.54	248.68	0.12	248.72	0.050335	1.44	3.73	55.01	1.32
T2	5565.95	350 Year	DonPhaseII_Final_Proposed	2.58	248.54	248.68	0.12	248.72	0.050335	1.44	3.73	55.01	1.32
T2	5565.95	100 Year	DonPhaseII_Final_Baseline	0.96	248.54	248.64	0.07	248.66	0.047351	1.05	1.94	49.27	1.24
T2	5565.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	248.54	248.64	0.08	248.67	0.054369	1.18	2.21	50.11	1.33
T2	5565.95	50 Year	DonPhaseII_Final_Baseline	0.79	248.54	248.63	0.06	248.65	0.050730	1.02	1.66	48.31	1.27

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	5565.95	100 Year	DonPhaseII_Final_Proposed	0.96	248.54	248.64	0.07	248.66	0.047351	1.05	1.94	49.27	1.24
T2	5565.95	25 Year	DonPhaseII_Final_Baseline	0.57	248.54	248.62	0.06	248.64	0.045721	0.90	1.38	47.32	1.21
T2	5565.95	50 Year	DonPhaseII_Final_Proposed	0.79	248.54	248.63	0.06	248.65	0.050730	1.02	1.66	48.31	1.27
T2	5565.95	10 Year	DonPhaseII_Final_Baseline	0.35	248.54	248.61	0.05	248.62	0.026874	0.65	1.18	46.62	0.93
T2	5565.95	25 Year	DonPhaseII_Final_Proposed	0.57	248.54	248.62	0.06	248.64	0.045721	0.90	1.38	47.32	1.21
T2	5565.95	5 Year	DonPhaseII_Final_Baseline	0.29	248.54	248.61	0.05	248.62	0.023808	0.59	1.07	46.08	0.87
T2	5565.95	10 Year	DonPhaseII_Final_Proposed	0.35	248.54	248.61	0.05	248.62	0.026874	0.65	1.18	46.62	0.93
T2	5565.95	2 Year	DonPhaseII_Final_Baseline	0.21	248.54	248.60	0.04	248.61	0.019679	0.51	0.89	43.89	0.79
T2	5565.95	5 Year	DonPhaseII_Final_Proposed	0.29	248.54	248.61	0.05	248.62	0.023808	0.59	1.07	46.08	0.87
T2	5565.95	2 Year	DonPhaseII_Final_Proposed	0.21	248.54	248.60	0.04	248.61	0.019679	0.51	0.89	43.89	0.79
T2	5506.34	Regional	DonPhaseII_Final_Baseline	21.47	247.71	248.48	0.66	248.56	0.007942	1.93	27.34	81.18	0.76
T2	5506.34	Regional	DonPhaseII_Final_Proposed	21.47	247.71	248.48	0.66	248.56	0.007942	1.93	27.34	81.18	0.76
T2	5506.34	350 Year	DonPhaseII_Final_Baseline	2.90	247.71	248.10	0.28	248.12	0.005335	0.88	6.03	29.11	0.54
T2	5506.34	350 Year	DonPhaseII_Final_Proposed	2.90	247.71	248.10	0.28	248.12	0.005335	0.88	6.03	29.11	0.54
T2	5506.34	100 Year	DonPhaseII_Final_Baseline	1.27	247.71	247.99	0.16	248.00	0.006157	0.67	3.18	23.54	0.53
T2	5506.34	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	247.71	248.02	0.20	248.04	0.005728	0.74	4.02	25.31	0.53
T2	5506.34	50 Year	DonPhaseII_Final_Baseline	1.03	247.71	247.96	0.14	247.98	0.006282	0.62	2.72	20.87	0.52
T2	5506.34	100 Year	DonPhaseII_Final_Proposed	1.27	247.71	247.99	0.16	248.00	0.006157	0.67	3.18	23.54	0.53
T2	5506.34	25 Year	DonPhaseII_Final_Baseline	0.69	247.71	247.93	0.11	247.94	0.006753	0.53	2.00	18.55	0.52
T2	5506.34	50 Year	DonPhaseII_Final_Proposed	1.03	247.71	247.96	0.14	247.98	0.006282	0.62	2.72	20.87	0.52
T2	5506.34	10 Year	DonPhaseII_Final_Baseline	0.37	247.71	247.87	0.08	247.88	0.009007	0.49	1.16	13.19	0.57
T2	5506.34	25 Year	DonPhaseII_Final_Proposed	0.69	247.71	247.93	0.11	247.94	0.006753	0.53	2.00	18.55	0.52
T2	5506.34	5 Year	DonPhaseII_Final_Baseline	0.31	247.71	247.86	0.07	247.87	0.009852	0.50	0.99	12.36	0.59
T2	5506.34	10 Year	DonPhaseII_Final_Proposed	0.37	247.71	247.87	0.08	247.88	0.009007	0.49	1.16	13.19	0.57
T2	5506.34	2 Year	DonPhaseII_Final_Baseline	0.22	247.71	247.84	0.06	247.85	0.011365	0.49	0.75	11.37	0.61
T2	5506.34	5 Year	DonPhaseII_Final_Proposed	0.31	247.71	247.86	0.07	247.87	0.009852	0.50	0.99	12.36	0.59
T2	5506.34	2 Year	DonPhaseII_Final_Proposed	0.22	247.71	247.84	0.06	247.85	0.011365	0.49	0.75	11.37	0.61
T2	5406.68	Regional	DonPhaseII_Final_Baseline	21.47	246.29	247.60	1.06	247.70	0.012236	2.19	23.34	59.32	0.68
T2	5406.68	Regional	DonPhaseII_Final_Proposed	21.47	246.29	247.60	1.06	247.70	0.012236	2.19	23.34	59.32	0.68
T2	5406.68	350 Year	DonPhaseII_Final_Baseline	2.90	246.29	246.97	0.43	247.12	0.029275	1.86	2.34	12.77	0.90
T2	5406.68	350 Year	DonPhaseII_Final_Proposed	2.90	246.29	246.97	0.43	247.12	0.029275	1.86	2.34	12.77	0.90
T2	5406.68	100 Year	DonPhaseII_Final_Baseline	1.27	246.29	246.84	0.30	246.93	0.025809	1.36	1.11	6.87	0.80
T2	5406.68	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	246.29	246.87	0.33	246.99	0.028743	1.54	1.35	7.73	0.86
T2	5406.68	50 Year	DonPhaseII_Final_Baseline	1.03	246.29	246.81	0.27	246.89	0.026168	1.27	0.91	6.05	0.79
T2	5406.68	100 Year	DonPhaseII_Final_Proposed	1.27	246.29	246.84	0.30	246.93	0.025809	1.36	1.11	6.87	0.80
T2	5406.68	25 Year	DonPhaseII_Final_Baseline	0.69	246.29	246.76	0.22	246.82	0.024673	1.08	0.65	4.19	0.74
T2	5406.68	50 Year	DonPhaseII_Final_Proposed	1.03	246.29	246.81	0.27	246.89	0.026168	1.27	0.91	6.05	0.79
T2	5406.68	10 Year	DonPhaseII_Final_Baseline	0.37	246.29	246.66	0.17	246.71	0.017573	0.98	0.38	2.19	0.76
T2	5406.68	25 Year	DonPhaseII_Final_Proposed	0.69	246.29	246.76	0.22	246.82	0.024673	1.08	0.65	4.19	0.74
T2	5406.68	5 Year	DonPhaseII_Final_Baseline	0.31	246.29	246.62	0.16	246.68	0.016126	1.03	0.30	1.86	0.82
T2	5406.68	10 Year	DonPhaseII_Final_Proposed	0.37	246.29	246.66	0.17	246.71	0.017573	0.98	0.38	2.19	0.76
T2	5406.68	2 Year	DonPhaseII_Final_Baseline	0.22	246.29	246.59	0.15	246.63	0.014265	0.92	0.24	1.61	0.76
T2	5406.68	5 Year	DonPhaseII_Final_Proposed	0.31	246.29	246.62	0.16	246.68	0.016126	1.03	0.30	1.86	0.82
T2	5406.68	2 Year	DonPhaseII_Final_Proposed	0.22	246.29	246.59	0.15	246.63	0.014265	0.92	0.24	1.61	0.76
T2	5339.73	Regional	DonPhaseII_Final_Baseline	21.47	245.42	246.83	1.14	247.00	0.009841	2.32	18.52	40.34	0.69
T2	5339.73	Regional	DonPhaseII_Final_Proposed	21.47	245.42	246.83	1.14	247.00	0.009841	2.32	18.52	40.34	0.69
T2	5339.73	350 Year	DonPhaseII_Final_Baseline	2.90	245.42	246.22	0.54	246.27	0.005273	1.03	3.42	11.14	0.45
T2	5339.73	350 Year	DonPhaseII_Final_Proposed	2.90	245.42	246.22	0.54	246.27	0.005273	1.03	3.42	11.14	0.45
T2	5339.73	100 Year	DonPhaseII_Final_Baseline	1.27	245.42	245.98	0.30	246.02	0.008258	0.88	1.45	5.10	0.51
T2	5339.73	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	245.42	246.05	0.36	246.09	0.007122	0.92	1.88	7.41	0.49
T2	5339.73	50 Year	DonPhaseII_Final_Baseline	1.03	245.42	245.91	0.26	245.95	0.008608	0.93	1.11	4.31	0.58
T2	5339.73	100 Year	DonPhaseII_Final_Proposed	1.27	245.42	245.98	0.30	246.02	0.008258	0.88	1.45	5.10	0.51
T2	5339.73	25 Year	DonPhaseII_Final_Baseline	0.69	245.42	245.80	0.21	245.85	0.009512	0.97	0.71	3.40	0.67
T2	5339.73	50 Year	DonPhaseII_Final_Proposed	1.03	245.42	245.91	0.26	245.95	0.008608	0.93	1.11	4.31	0.58
T2	5339.73	10 Year	DonPhaseII_Final_Baseline	0.37	245.42	245.70	0.15	245.74	0.011974	0.89	0.42	2.71	0.72
T2	5339.73	25 Year	DonPhaseII_Final_Proposed	0.69	245.42	245.80	0.21	245.85	0.009512	0.97	0.71	3.40	0.67
T2	5339.73	5 Year	DonPhaseII_Final_Baseline	0.31	245.42	245.68	0.14	245.72	0.012643	0.86	0.36	2.55	0.73
T2	5339.73	10 Year	DonPhaseII_Final_Proposed	0.37	245.42	245.70	0.15	245.74	0.011974	0.89	0.42	2.71	0.72
T2	5339.73	2 Year	DonPhaseII_Final_Baseline	0.22	245.42	245.65	0.12	245.68	0.014003	0.81	0.27	2.29	0.75
T2	5339.73	5 Year	DonPhaseII_Final_Proposed	0.31	245.42	245.68	0.14	245.72	0.012643	0.86	0.36	2.55	0.73
T2	5339.73	2 Year	DonPhaseII_Final_Proposed	0.22	245.42	245.65	0.12	245.68	0.014003	0.81	0.27	2.29	0.75
T2	5266.38	Regional	DonPhaseII_Final_Baseline	21.47	244.91	246.36	1.37	246.49	0.005630	2.61	33.38	95.92	0.71
T2	5266.38	Regional	DonPhaseII_Final_Proposed	21.47	244.91	246.36	1.37	246.49	0.005630	2.61	33.38	95.92	0.71
T2	5266.38	350 Year	DonPhaseII_Final_Baseline	2.90	244.91	245.66	0.67	245.82	0.007359	1.85	2.17	4.92	0.72
T2	5266.38	350 Year	DonPhaseII_Final_Proposed	2.90	244.91	245.66	0.67	245.82	0.007359	1.85	2.17	4.92	0.72
T2	5266.38	100 Year	DonPhaseII_Final_Baseline	1.27	244.91	245.45	0.46	245.52	0.005609	1.25	1.25	3.78	0.59
T2	5266.38	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	244.91	245.50	0.52	245.60	0.006251	1.43	1.47	4.06	0.64
T2	5266.38	50 Year	DonPhaseII_Final_Baseline	1.03	244.91	245.40	0.42	245.47	0.005210	1.13	1.09	3.58	0.56
T2	5266.38	100 Year	DonPhaseII_Final_Proposed	1.27	244.91	245.45	0.46	245.52	0.005609	1.25	1.25	3.78	0.59
T2	5266.38	25 Year	DonPhaseII_Final_Baseline	0.69	244.91	245.33	0.34	245.37	0.004719	0.94	0.84	3.21	0.52
T2	5266.38	50 Year	DonPhaseII_Final_Proposed	1.03	244.91	245.40	0.42	245.47	0.005210	1.13	1.09	3.58	0.56
T2	5266.38	10 Year	DonPhaseII_Final_Baseline	0.37	244.91	245.24	0.25	245.26	0.004137	0.71	0.56	2.75	0.46
T2	5266.38	25 Year	DonPhaseII_Final_Proposed	0.69	244.91	245.33	0.34	245.37	0.004719	0.94	0.84	3.21	0.52
T2	5266.38	5 Year	DonPhaseII_Final_Baseline	0.31	244.91	245.21	0.23	245.23	0.004032	0.66	0.50	2.64	0.44
T2	5266.38	10 Year	DonPhaseII_Final_Proposed	0.37	244.91	245.24	0.25	245.26	0.004137	0.71	0.56	2.75	0.46
T2	5266.38	2 Year	DonPhaseII_Final_Baseline	0.22	244.91	245.17	0.19	245.19	0.003851	0.57	0.40	2.46	0.42
T2	5266.38	5 Year	DonPhaseII_Final_Proposed	0.31	244.91	245.21	0.23	245.23	0.004032	0.66	0.50	2.64	0.44
T2	5266.38	2 Year	DonPhaseII_Final_Proposed	0.22	244.91	245.17	0.19	245.19	0.003851	0.57	0.40	2.46	0.42
T2	5166.38	Regional	DonPhaseII_Final_Baseline	21.47	244.22	245.81	1.48	246.01	0.005116	2.63	24.95	57.35	0.69
T2	5166.38	Regional	DonPhaseII_Final_Proposed	21.47	244.22	245.81	1.48	246.01	0.005116	2.63	24.95	57.35	0.69
T2	5166.38	350 Year	DonPhaseII_Final_Baseline	2.90	244.22	244.83	0.50	244.99	0.010315	1.80	2.03	5.76	0.82
T2	5166.38	350 Year	DonPhaseII_Final_Proposed	2.90	244.22	244.83	0.50	244.99	0.010315	1.80	2.03	5.76	0.82
T2	5166.38	100 Year	DonPhaseII_Final_Baseline	1.27	244.22	244.63	0.30	244.73	0.012624	1.41	1.00	4.41	0.83
T2	5166.38	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	244.22	244.69	0.35	244.80	0.011300	1.50	1.27	4.80	0.81
T2	5166.38	50 Year	DonPhaseII_Final_Baseline	1.03	244.22	244.59	0.26	244.68	0.013629	1.33	0.83	4.08	0.84
T2	5166.38	100 Year	DonPhaseII_Final_Proposed	1.27	244.22	244.63	0.30	244.73	0.012624	1.41	1.00	4.41	0.83
T2	5166.38	25 Year	DonPhaseII_Final_Baseline	0.69	244.22	244.53	0.20	244.60	0.015103	1.17	0.60	3.56	0.85
T2	5166.38	50 Year	DonPhaseII_Final_Proposed	1.03	244.22	244.59	0.26	244.68	0.013629	1.33	0.83	4.08	0.84
T2	5166.38	10 Year	DonPhaseII_Final_Baseline	0.37	244.22	244.46	0.13	244.51	0.017658	0.96	0.38	2.98	0.85
T2	5166.38	25 Year	DonPhaseII_Final_Proposed	0.69	244.22	244.53	0.20	244.60	0.015103	1.17	0.60	3.56	0.85
T2	5166.38	5 Year	DonPhaseII_Final_Baseline	0.31	244.22	244.45	0.12	244.49	0.018107	0.93	0.33	2.79	0.85
T2	5166.38	10 Year	DonPhaseII_Final_Proposed	0.37	244.22	244.46	0.13	244.51	0.017658	0.96	0.38	2.98	0.85

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	5166.38	2 Year	DonPhaseII_Final_Baseline	0.22	244.22	244.42	0.10	244.45	0.019170	0.86	0.25	2.45	0.86
T2	5166.38	5 Year	DonPhaseII_Final_Proposed	0.31	244.22	244.45	0.12	244.49	0.018107	0.93	0.33	2.79	0.85
T2	5166.38	2 Year	DonPhaseII_Final_Proposed	0.22	244.22	244.42	0.10	244.45	0.019170	0.86	0.25	2.45	0.86
T2	5066.99	Regional	DonPhaseII_Final_Baseline	21.47	243.57	245.11	1.49	245.31	0.005001	2.63	25.03	57.99	0.69
T2	5066.99	Regional	DonPhaseII_Final_Proposed	21.47	243.57	245.11	1.49	245.31	0.005001	2.63	25.03	57.99	0.69
T2	5066.99	350 Year	DonPhaseII_Final_Baseline	2.90	243.57	244.24	0.62	244.33	0.004573	1.40	2.80	6.63	0.57
T2	5066.99	350 Year	DonPhaseII_Final_Proposed	2.90	243.57	244.24	0.62	244.33	0.004573	1.40	2.80	6.63	0.57
T2	5066.99	100 Year	DonPhaseII_Final_Baseline	1.27	243.57	244.03	0.41	244.08	0.003947	0.98	1.56	5.15	0.49
T2	5066.99	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	243.57	244.08	0.46	244.14	0.004255	1.11	1.85	5.53	0.52
T2	5066.99	50 Year	DonPhaseII_Final_Baseline	1.03	243.57	243.99	0.37	244.03	0.003772	0.89	1.35	4.87	0.47
T2	5066.99	100 Year	DonPhaseII_Final_Proposed	1.27	243.57	244.03	0.41	244.08	0.003947	0.98	1.56	5.15	0.49
T2	5066.99	25 Year	DonPhaseII_Final_Baseline	0.69	243.57	243.92	0.29	243.94	0.003614	0.76	1.02	4.39	0.45
T2	5066.99	50 Year	DonPhaseII_Final_Proposed	1.03	243.57	243.99	0.37	244.03	0.003772	0.89	1.35	4.87	0.47
T2	5066.99	10 Year	DonPhaseII_Final_Baseline	0.37	243.57	243.83	0.21	243.85	0.003404	0.58	0.67	3.80	0.41
T2	5066.99	25 Year	DonPhaseII_Final_Proposed	0.69	243.57	243.92	0.29	243.94	0.003614	0.76	1.02	4.39	0.45
T2	5066.99	5 Year	DonPhaseII_Final_Baseline	0.31	243.57	243.81	0.19	243.83	0.003397	0.54	0.60	3.66	0.40
T2	5066.99	10 Year	DonPhaseII_Final_Proposed	0.37	243.57	243.83	0.21	243.85	0.003404	0.58	0.67	3.80	0.41
T2	5066.99	2 Year	DonPhaseII_Final_Baseline	0.22	243.57	243.78	0.15	243.79	0.003323	0.47	0.48	3.42	0.38
T2	5066.99	5 Year	DonPhaseII_Final_Proposed	0.31	243.57	243.81	0.19	243.83	0.003397	0.54	0.60	3.66	0.40
T2	5066.99	2 Year	DonPhaseII_Final_Proposed	0.22	243.57	243.78	0.15	243.79	0.003323	0.47	0.48	3.42	0.38
T2	5017.21	Regional	DonPhaseII_Final_Baseline	21.47	243.24	244.52	1.23	244.73	0.010089	2.86	19.30	37.98	0.82
T2	5017.21	Regional	DonPhaseII_Final_Proposed	21.47	243.24	244.52	1.23	244.73	0.010089	2.86	19.30	37.98	0.82
T2	5017.21	350 Year	DonPhaseII_Final_Baseline	2.90	243.24	243.78	0.49	243.95	0.014733	1.89	1.96	6.27	0.86
T2	5017.21	350 Year	DonPhaseII_Final_Proposed	2.90	243.24	243.78	0.49	243.95	0.014733	1.89	1.96	6.27	0.86
T2	5017.21	100 Year	DonPhaseII_Final_Baseline	1.27	243.24	243.57	0.28	243.69	0.020532	1.55	0.92	4.05	0.93
T2	5017.21	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	243.24	243.64	0.35	243.76	0.016845	1.61	1.20	4.53	0.87
T2	5017.21	50 Year	DonPhaseII_Final_Baseline	1.03	243.24	243.53	0.24	243.64	0.023323	1.49	0.76	3.82	0.97
T2	5017.21	100 Year	DonPhaseII_Final_Proposed	1.27	243.24	243.57	0.28	243.69	0.020532	1.55	0.92	4.05	0.93
T2	5017.21	25 Year	DonPhaseII_Final_Baseline	0.69	243.24	243.47	0.18	243.56	0.024983	1.31	0.56	3.51	0.97
T2	5017.21	50 Year	DonPhaseII_Final_Proposed	1.03	243.24	243.53	0.24	243.64	0.023323	1.49	0.76	3.82	0.97
T2	5017.21	10 Year	DonPhaseII_Final_Baseline	0.37	243.24	243.41	0.12	243.47	0.028802	1.09	0.35	3.05	1.00
T2	5017.21	25 Year	DonPhaseII_Final_Proposed	0.69	243.24	243.47	0.18	243.56	0.024983	1.31	0.56	3.51	0.97
T2	5017.21	5 Year	DonPhaseII_Final_Baseline	0.31	243.24	243.40	0.11	243.45	0.028421	1.03	0.31	2.92	0.99
T2	5017.21	10 Year	DonPhaseII_Final_Proposed	0.37	243.24	243.41	0.12	243.47	0.028802	1.09	0.35	3.05	1.00
T2	5017.21	2 Year	DonPhaseII_Final_Baseline	0.22	243.24	243.37	0.09	243.42	0.028473	0.93	0.24	2.69	0.99
T2	5017.21	5 Year	DonPhaseII_Final_Proposed	0.31	243.24	243.40	0.11	243.45	0.028421	1.03	0.31	2.92	0.99
T2	5017.21	2 Year	DonPhaseII_Final_Proposed	0.22	243.24	243.37	0.09	243.42	0.028473	0.93	0.24	2.69	0.99
T2	4940.48	Regional	DonPhaseII_Final_Baseline	22.33	242.02	243.73	1.67	243.99	0.006270	3.03	21.16	39.43	0.75
T2	4940.48	Regional	DonPhaseII_Final_Proposed	22.33	242.02	243.73	1.67	243.99	0.006270	3.03	21.16	39.43	0.75
T2	4940.48	350 Year	DonPhaseII_Final_Baseline	3.14	242.02	242.59	0.53	242.82	0.014976	2.20	1.86	4.92	0.96
T2	4940.48	350 Year	DonPhaseII_Final_Proposed	3.14	242.02	242.59	0.53	242.82	0.014976	2.20	1.86	4.92	0.96
T2	4940.48	100 Year	DonPhaseII_Final_Baseline	1.50	242.02	242.44	0.37	242.55	0.011731	1.55	1.16	4.09	0.81
T2	4940.48	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	242.02	242.48	0.42	242.63	0.013267	1.78	1.35	4.33	0.88
T2	4940.48	50 Year	DonPhaseII_Final_Baseline	1.20	242.02	242.40	0.34	242.49	0.010792	1.39	1.01	3.89	0.76
T2	4940.48	100 Year	DonPhaseII_Final_Proposed	1.50	242.02	242.44	0.37	242.55	0.011731	1.55	1.16	4.09	0.81
T2	4940.48	25 Year	DonPhaseII_Final_Baseline	0.79	242.02	242.34	0.27	242.40	0.009825	1.16	0.77	3.54	0.71
T2	4940.48	50 Year	DonPhaseII_Final_Proposed	1.20	242.02	242.40	0.34	242.49	0.010792	1.39	1.01	3.89	0.76
T2	4940.48	10 Year	DonPhaseII_Final_Baseline	0.39	242.02	242.25	0.19	242.29	0.008815	0.86	0.48	3.04	0.63
T2	4940.48	25 Year	DonPhaseII_Final_Proposed	0.79	242.02	242.34	0.27	242.40	0.009825	1.16	0.77	3.54	0.71
T2	4940.48	5 Year	DonPhaseII_Final_Baseline	0.32	242.02	242.23	0.17	242.26	0.008392	0.78	0.43	2.93	0.61
T2	4940.48	10 Year	DonPhaseII_Final_Proposed	0.39	242.02	242.25	0.19	242.29	0.008815	0.86	0.48	3.04	0.63
T2	4940.48	2 Year	DonPhaseII_Final_Baseline	0.23	242.02	242.20	0.14	242.22	0.008401	0.69	0.34	2.74	0.60
T2	4940.48	5 Year	DonPhaseII_Final_Proposed	0.32	242.02	242.23	0.17	242.26	0.008392	0.78	0.43	2.93	0.61
T2	4940.48	2 Year	DonPhaseII_Final_Proposed	0.23	242.02	242.20	0.14	242.22	0.008401	0.69	0.34	2.74	0.60
T2	4910.32	Regional	DonPhaseII_Final_Baseline	22.33	241.75	243.05	1.14	243.20	0.005198	2.21	24.88	49.69	0.66
T2	4910.32	Regional	DonPhaseII_Final_Proposed	22.33	241.75	243.05	1.14	243.20	0.005198	2.21	24.88	49.69	0.66
T2	4910.32	350 Year	DonPhaseII_Final_Baseline	3.14	241.75	242.37	0.45	242.46	0.006844	1.36	2.57	7.99	0.65
T2	4910.32	350 Year	DonPhaseII_Final_Proposed	3.14	241.75	242.37	0.45	242.46	0.006844	1.36	2.57	7.99	0.65
T2	4910.32	100 Year	DonPhaseII_Final_Baseline	1.50	241.75	242.20	0.29	242.26	0.007384	1.05	1.46	5.61	0.63
T2	4910.32	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	241.75	242.25	0.34	242.32	0.007151	1.15	1.76	6.08	0.63
T2	4910.32	50 Year	DonPhaseII_Final_Baseline	1.20	241.75	242.16	0.26	242.21	0.007471	0.98	1.24	5.14	0.62
T2	4910.32	100 Year	DonPhaseII_Final_Proposed	1.50	241.75	242.20	0.29	242.26	0.007384	1.05	1.46	5.61	0.63
T2	4910.32	25 Year	DonPhaseII_Final_Baseline	0.79	241.75	242.10	0.21	242.13	0.007601	0.85	0.93	4.61	0.60
T2	4910.32	50 Year	DonPhaseII_Final_Proposed	1.20	241.75	242.16	0.26	242.21	0.007471	0.98	1.24	5.14	0.62
T2	4910.32	10 Year	DonPhaseII_Final_Baseline	0.39	241.75	242.02	0.15	242.04	0.007510	0.67	0.58	3.98	0.56
T2	4910.32	25 Year	DonPhaseII_Final_Proposed	0.79	241.75	242.10	0.21	242.13	0.007601	0.85	0.93	4.61	0.60
T2	4910.32	5 Year	DonPhaseII_Final_Baseline	0.32	241.75	242.00	0.13	242.02	0.007547	0.63	0.51	3.84	0.56
T2	4910.32	10 Year	DonPhaseII_Final_Proposed	0.39	241.75	242.02	0.15	242.04	0.007510	0.67	0.58	3.98	0.56
T2	4910.32	2 Year	DonPhaseII_Final_Baseline	0.23	241.75	241.97	0.11	241.99	0.007187	0.56	0.41	3.65	0.53
T2	4910.32	5 Year	DonPhaseII_Final_Proposed	0.32	241.75	242.00	0.13	242.02	0.007547	0.63	0.51	3.84	0.56
T2	4910.32	2 Year	DonPhaseII_Final_Proposed	0.23	241.75	241.97	0.11	241.99	0.007187	0.56	0.41	3.65	0.53
T2	4858.16	Regional	DonPhaseII_Final_Baseline	22.33	241.10	242.34	1.16	242.72	0.016861	4.07	15.21	37.56	1.21
T2	4858.16	Regional	DonPhaseII_Final_Proposed	22.33	241.10	242.34	1.16	242.72	0.016861	4.07	15.21	37.56	1.21
T2	4858.16	350 Year	DonPhaseII_Final_Baseline	3.14	241.10	241.78	0.60	241.99	0.011819	2.20	2.34	10.80	0.90
T2	4858.16	350 Year	DonPhaseII_Final_Proposed	3.14	241.10	241.78	0.60	241.99	0.011819	2.20	2.34	10.80	0.90
T2	4858.16	100 Year	DonPhaseII_Final_Baseline	1.50	241.10	241.55	0.38	241.71	0.015435	1.84	1.05	4.04	0.96
T2	4858.16	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	241.10	241.62	0.44	241.80	0.014468	1.98	1.33	4.53	0.95
T2	4858.16	50 Year	DonPhaseII_Final_Baseline	1.20	241.10	241.50	0.33	241.64	0.016413	1.72	0.86	3.67	0.96
T2	4858.16	100 Year	DonPhaseII_Final_Proposed	1.50	241.10	241.55	0.38	241.71	0.015435	1.84	1.05	4.04	0.96
T2	4858.16	25 Year	DonPhaseII_Final_Baseline	0.79	241.10	241.43	0.25	241.54	0.018207	1.52	0.60	3.15	0.97
T2	4858.16	50 Year	DonPhaseII_Final_Proposed	1.20	241.10	241.50	0.33	241.64	0.016413	1.72	0.86	3.67	0.96
T2	4858.16	10 Year	DonPhaseII_Final_Baseline	0.39	241.10	241.33	0.16	241.41	0.022015	1.23	0.34	2.54	0.99
T2	4858.16	25 Year	DonPhaseII_Final_Proposed	0.79	241.10	241.43	0.25	241.54	0.018207	1.52	0.60	3.15	0.97
T2	4858.16	5 Year	DonPhaseII_Final_Baseline	0.32	241.10	241.31	0.14	241.38	0.022496	1.14	0.29	2.42	0.98
T2	4858.16	10 Year	DonPhaseII_Final_Proposed	0.39	241.10	241.33	0.16	241.41	0.022015	1.23	0.34	2.54	0.99
T2	4858.16	2 Year	DonPhaseII_Final_Baseline	0.23	241.10	241.29	0.11	241.34	0.025656	1.04	0.22	2.23	1.00
T2	4858.16	5 Year	DonPhaseII_Final_Proposed	0.32	241.10	241.31	0.14	241.38	0.022496	1.14	0.29	2.42	0.98
T2	4858.16	2 Year	DonPhaseII_Final_Proposed	0.23	241.10	241.29	0.11	241.34	0.025656	1.04	0.22	2.23	1.00
T2	4799.9	Regional	DonPhaseII_Final_Baseline	22.33	240.24	242.23	1.83	242.35	0.001932	1.85	26.24	32.23	0.44
T2	4799.9	Regional	DonPhaseII_Final_Proposed	22.33	240.24	242.23	1.83	242.35	0.001932	1.85	26.24	32.23	0.44
T2	4799.9	350 Year	DonPhaseII_Final_Baseline	3.14	240.24	241.07	0.67	241.11	0.002025	0.97	4.43	8.76	0.38

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	4799.9	350 Year	DonPhaseII_Final_Proposed	3.14	240.24	241.07	0.67	241.11	0.002025	0.97	4.43	8.76	0.38
T2	4799.9	100 Year	DonPhaseII_Final_Baseline	1.50	240.24	240.81	0.41	240.84	0.002600	0.80	2.36	7.40	0.40
T2	4799.9	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	240.24	240.89	0.49	240.92	0.002372	0.85	2.95	7.82	0.39
T2	4799.9	50 Year	DonPhaseII_Final_Baseline	1.20	240.24	240.76	0.36	240.78	0.002812	0.75	1.95	7.01	0.40
T2	4799.9	100 Year	DonPhaseII_Final_Proposed	1.50	240.24	240.81	0.41	240.84	0.002600	0.80	2.36	7.40	0.40
T2	4799.9	25 Year	DonPhaseII_Final_Baseline	0.79	240.24	240.66	0.27	240.69	0.003487	0.69	1.34	6.36	0.43
T2	4799.9	50 Year	DonPhaseII_Final_Proposed	1.20	240.24	240.76	0.36	240.78	0.002812	0.75	1.95	7.01	0.40
T2	4799.9	10 Year	DonPhaseII_Final_Baseline	0.39	240.24	240.56	0.17	240.58	0.004356	0.57	0.73	5.27	0.44
T2	4799.9	25 Year	DonPhaseII_Final_Proposed	0.79	240.24	240.66	0.27	240.69	0.003487	0.69	1.34	6.36	0.43
T2	4799.9	5 Year	DonPhaseII_Final_Baseline	0.32	240.24	240.54	0.15	240.55	0.004585	0.54	0.62	5.05	0.44
T2	4799.9	10 Year	DonPhaseII_Final_Proposed	0.39	240.24	240.56	0.17	240.58	0.004356	0.57	0.73	5.27	0.44
T2	4799.9	2 Year	DonPhaseII_Final_Baseline	0.23	240.24	240.50	0.13	240.52	0.004839	0.51	0.46	3.64	0.45
T2	4799.9	5 Year	DonPhaseII_Final_Proposed	0.32	240.24	240.54	0.15	240.55	0.004585	0.54	0.62	5.05	0.44
T2	4799.9	2 Year	DonPhaseII_Final_Proposed	0.23	240.24	240.50	0.13	240.52	0.004839	0.51	0.46	3.64	0.45
T2	4766.27	Regional	DonPhaseII_Final_Baseline	22.33	240.07	241.77	1.67	242.19	0.010909	3.77	13.18	15.57	0.93
T2	4766.27	Regional	DonPhaseII_Final_Proposed	22.33	240.07	241.77	1.67	242.19	0.010909	3.77	13.18	15.57	0.93
T2	4766.27	350 Year	DonPhaseII_Final_Baseline	3.14	240.07	240.70	0.60	240.94	0.015980	2.33	1.86	4.53	0.96
T2	4766.27	350 Year	DonPhaseII_Final_Proposed	3.14	240.07	240.70	0.60	240.94	0.015980	2.33	1.86	4.53	0.96
T2	4766.27	100 Year	DonPhaseII_Final_Baseline	1.50	240.07	240.48	0.38	240.64	0.018362	1.86	0.99	3.40	0.96
T2	4766.27	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	240.07	240.55	0.45	240.74	0.017609	2.02	1.23	3.74	0.96
T2	4766.27	50 Year	DonPhaseII_Final_Baseline	1.20	240.07	240.43	0.34	240.57	0.018349	1.71	0.84	3.20	0.94
T2	4766.27	100 Year	DonPhaseII_Final_Proposed	1.50	240.07	240.48	0.38	240.64	0.018362	1.86	0.99	3.40	0.96
T2	4766.27	25 Year	DonPhaseII_Final_Baseline	0.79	240.07	240.38	0.28	240.47	0.014260	1.36	0.68	2.98	0.81
T2	4766.27	50 Year	DonPhaseII_Final_Proposed	1.20	240.07	240.43	0.34	240.57	0.018349	1.71	0.84	3.20	0.94
T2	4766.27	10 Year	DonPhaseII_Final_Baseline	0.39	240.07	240.29	0.19	240.34	0.012742	1.01	0.43	2.60	0.73
T2	4766.27	25 Year	DonPhaseII_Final_Proposed	0.79	240.07	240.38	0.28	240.47	0.014260	1.36	0.68	2.98	0.81
T2	4766.27	5 Year	DonPhaseII_Final_Baseline	0.32	240.07	240.27	0.17	240.31	0.012315	0.92	0.38	2.51	0.71
T2	4766.27	10 Year	DonPhaseII_Final_Proposed	0.39	240.07	240.29	0.19	240.34	0.012742	1.01	0.43	2.60	0.73
T2	4766.27	2 Year	DonPhaseII_Final_Baseline	0.23	240.07	240.24	0.14	240.27	0.011781	0.81	0.30	2.39	0.68
T2	4766.27	5 Year	DonPhaseII_Final_Proposed	0.32	240.07	240.27	0.17	240.31	0.012315	0.92	0.38	2.51	0.71
T2	4766.27	2 Year	DonPhaseII_Final_Proposed	0.23	240.07	240.24	0.14	240.27	0.011781	0.81	0.30	2.39	0.68
T2	4731.75	Regional	DonPhaseII_Final_Baseline	22.33	239.44	240.80	1.08	241.15	0.010492	3.00	11.54	18.42	0.92
T2	4731.75	Regional	DonPhaseII_Final_Proposed	22.33	239.44	240.80	1.08	241.15	0.010492	3.00	11.54	18.42	0.92
T2	4731.75	350 Year	DonPhaseII_Final_Baseline	3.14	239.44	240.05	0.37	240.23	0.017770	1.89	1.66	4.70	1.00
T2	4731.75	350 Year	DonPhaseII_Final_Proposed	3.14	239.44	240.05	0.37	240.23	0.017770	1.89	1.66	4.70	1.00
T2	4731.75	100 Year	DonPhaseII_Final_Baseline	1.50	239.44	239.89	0.26	240.01	0.017733	1.51	0.99	3.82	0.95
T2	4731.75	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	239.44	239.94	0.29	240.08	0.017888	1.63	1.20	4.13	0.97
T2	4731.75	50 Year	DonPhaseII_Final_Baseline	1.20	239.44	239.86	0.24	239.96	0.016890	1.40	0.86	3.60	0.91
T2	4731.75	100 Year	DonPhaseII_Final_Proposed	1.50	239.44	239.89	0.26	240.01	0.017733	1.51	0.99	3.82	0.95
T2	4731.75	25 Year	DonPhaseII_Final_Baseline	0.79	239.44	239.77	0.19	239.86	0.022233	1.39	0.57	2.94	1.01
T2	4731.75	50 Year	DonPhaseII_Final_Proposed	1.20	239.44	239.86	0.24	239.96	0.016890	1.40	0.86	3.60	0.91
T2	4731.75	10 Year	DonPhaseII_Final_Baseline	0.39	239.44	239.68	0.14	239.75	0.024524	1.17	0.33	2.42	1.01
T2	4731.75	25 Year	DonPhaseII_Final_Proposed	0.79	239.44	239.77	0.19	239.86	0.022233	1.39	0.57	2.94	1.01
T2	4731.75	5 Year	DonPhaseII_Final_Baseline	0.32	239.44	239.66	0.12	239.72	0.025506	1.12	0.29	2.29	1.01
T2	4731.75	10 Year	DonPhaseII_Final_Proposed	0.39	239.44	239.68	0.14	239.75	0.024524	1.17	0.33	2.42	1.01
T2	4731.75	2 Year	DonPhaseII_Final_Baseline	0.23	239.44	239.63	0.11	239.68	0.027115	1.03	0.22	2.11	1.01
T2	4731.75	5 Year	DonPhaseII_Final_Proposed	0.32	239.44	239.66	0.12	239.72	0.025506	1.12	0.29	2.29	1.01
T2	4731.75	2 Year	DonPhaseII_Final_Proposed	0.23	239.44	239.63	0.11	239.68	0.027115	1.03	0.22	2.11	1.01
T2	4671.28	Regional	DonPhaseII_Final_Baseline	22.33	238.42	239.82	1.33	240.06	0.009086	3.28	20.45	36.40	0.91
T2	4671.28	Regional	DonPhaseII_Final_Proposed	22.33	238.42	239.82	1.33	240.06	0.009086	3.28	20.45	36.40	0.91
T2	4671.28	350 Year	DonPhaseII_Final_Baseline	3.14	238.42	239.06	0.57	239.28	0.013494	2.27	2.11	5.85	0.96
T2	4671.28	350 Year	DonPhaseII_Final_Proposed	3.14	238.42	239.06	0.57	239.28	0.013494	2.27	2.11	5.85	0.96
T2	4671.28	100 Year	DonPhaseII_Final_Baseline	1.50	238.42	238.86	0.37	239.01	0.015259	1.81	1.10	4.26	0.95
T2	4671.28	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	238.42	238.92	0.43	239.10	0.014723	1.97	1.37	4.72	0.96
T2	4671.28	50 Year	DonPhaseII_Final_Baseline	1.20	238.42	238.81	0.32	238.95	0.016245	1.70	0.90	3.94	0.96
T2	4671.28	100 Year	DonPhaseII_Final_Proposed	1.50	238.42	238.86	0.37	239.01	0.015259	1.81	1.10	4.26	0.95
T2	4671.28	25 Year	DonPhaseII_Final_Baseline	0.79	238.42	238.77	0.28	238.85	0.012460	1.34	0.72	3.63	0.82
T2	4671.28	50 Year	DonPhaseII_Final_Proposed	1.20	238.42	238.81	0.32	238.95	0.016245	1.70	0.90	3.94	0.96
T2	4671.28	10 Year	DonPhaseII_Final_Baseline	0.39	238.42	238.71	0.22	238.74	0.007060	0.86	0.52	3.18	0.59
T2	4671.28	25 Year	DonPhaseII_Final_Proposed	0.79	238.42	238.77	0.28	238.85	0.012460	1.34	0.72	3.63	0.82
T2	4671.28	5 Year	DonPhaseII_Final_Baseline	0.32	238.42	238.69	0.20	238.72	0.006403	0.78	0.47	3.04	0.55
T2	4671.28	10 Year	DonPhaseII_Final_Proposed	0.39	238.42	238.71	0.22	238.74	0.007060	0.86	0.52	3.18	0.59
T2	4671.28	2 Year	DonPhaseII_Final_Baseline	0.23	238.42	238.66	0.17	238.68	0.005655	0.66	0.38	2.81	0.51
T2	4671.28	5 Year	DonPhaseII_Final_Proposed	0.32	238.42	238.69	0.20	238.72	0.006403	0.78	0.47	3.04	0.55
T2	4671.28	2 Year	DonPhaseII_Final_Proposed	0.23	238.42	238.66	0.17	238.68	0.005655	0.66	0.38	2.81	0.51
T2	4566.35	Regional	DonPhaseII_Final_Baseline	22.33	237.54	239.09	1.42	239.12	0.001032	1.15	45.90	45.08	0.31
T2	4566.35	Regional	DonPhaseII_Final_Proposed	22.33	237.54	239.09	1.42	239.12	0.001032	1.15	45.90	45.08	0.31
T2	4566.35	350 Year	DonPhaseII_Final_Baseline	3.14	237.54	238.15	0.47	238.18	0.003363	0.99	6.85	28.91	0.46
T2	4566.35	350 Year	DonPhaseII_Final_Proposed	3.14	237.54	238.15	0.47	238.18	0.003363	0.99	6.85	28.91	0.46
T2	4566.35	100 Year	DonPhaseII_Final_Baseline	1.50	237.54	237.98	0.30	238.01	0.004938	0.90	3.00	16.81	0.52
T2	4566.35	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	237.54	238.03	0.35	238.06	0.004440	0.94	3.90	18.98	0.51
T2	4566.35	50 Year	DonPhaseII_Final_Baseline	1.20	237.54	237.94	0.27	237.97	0.005449	0.87	2.40	15.74	0.54
T2	4566.35	100 Year	DonPhaseII_Final_Proposed	1.50	237.54	237.98	0.30	238.01	0.004938	0.90	3.00	16.81	0.52
T2	4566.35	25 Year	DonPhaseII_Final_Baseline	0.79	237.54	237.88	0.21	237.91	0.006938	0.82	1.51	13.98	0.58
T2	4566.35	50 Year	DonPhaseII_Final_Proposed	1.20	237.54	237.94	0.27	237.97	0.005449	0.87	2.40	15.74	0.54
T2	4566.35	10 Year	DonPhaseII_Final_Baseline	0.39	237.54	237.80	0.13	237.83	0.011128	0.77	0.60	8.28	0.68
T2	4566.35	25 Year	DonPhaseII_Final_Proposed	0.79	237.54	237.88	0.21	237.91	0.006938	0.82	1.51	13.98	0.58
T2	4566.35	5 Year	DonPhaseII_Final_Baseline	0.32	237.54	237.79	0.11	237.81	0.012365	0.74	0.47	7.06	0.70
T2	4566.35	10 Year	DonPhaseII_Final_Proposed	0.39	237.54	237.80	0.13	237.83	0.011128	0.77	0.60	8.28	0.68
T2	4566.35	2 Year	DonPhaseII_Final_Baseline	0.23	237.54	237.75	0.10	237.78	0.014637	0.72	0.32	3.46	0.74
T2	4566.35	5 Year	DonPhaseII_Final_Proposed	0.32	237.54	237.79	0.11	237.81	0.012365	0.74	0.47	7.06	0.70
T2	4566.35	2 Year	DonPhaseII_Final_Proposed	0.23	237.54	237.75	0.10	237.78	0.014637	0.72	0.32	3.46	0.74
T2	4500.35	Regional	DonPhaseII_Final_Baseline	22.33	237.01	238.94	1.67	239.03	0.001708	1.62	30.84	43.27	0.40
T2	4500.35	Regional	DonPhaseII_Final_Proposed	22.33	237.01	238.94	1.67	239.03	0.001708	1.62	30.84	43.27	0.40
T2	4500.35	350 Year	DonPhaseII_Final_Baseline	3.14	237.01	237.68	0.41	237.81	0.010123	1.55	2.08	6.10	0.77
T2	4500.35	350 Year	DonPhaseII_Final_Proposed	3.14	237.01	237.68	0.41	237.81	0.010123	1.55	2.08	6.10	0.77
T2	4500.35	100 Year	DonPhaseII_Final_Baseline	1.50	237.01	237.54	0.31	237.61	0.007414	1.10	1.36	4.39	0.63
T2	4500.35	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	237.01	237.60	0.35	237.67	0.007674	1.21	1.62	4.92	0.65
T2	4500.35	50 Year	DonPhaseII_Final_Baseline	1.20	237.01	237.50	0.28	237.55	0.007189	1.03	1.17	4.10	0.61
T2	4500.35	100 Year	DonPhaseII_Final_Proposed	1.50	237.01	237.54	0.31	237.61	0.007414	1.10	1.36	4.39	0.63
T2	4500.35	25 Year	DonPhaseII_Final_Baseline	0.79	237.01	237.43	0.25	237.47	0.006330	0.87	0.90	3.67	0.56
T2	4500.35	50 Year	DonPhaseII_Final_Proposed	1.20	237.01	237.50	0.28	237.55	0.007189	1.03	1.17	4.10	0.61

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	4500.35	10 Year	DonPhaseII_Final_Baseline	0.39	237.01	237.34	0.19	237.36	0.004865	0.65	0.60	3.11	0.47
T2	4500.35	25 Year	DonPhaseII_Final_Proposed	0.79	237.01	237.43	0.25	237.47	0.006330	0.87	0.90	3.67	0.56
T2	4500.35	5 Year	DonPhaseII_Final_Baseline	0.32	237.01	237.32	0.18	237.34	0.004705	0.61	0.53	2.95	0.46
T2	4500.35	10 Year	DonPhaseII_Final_Proposed	0.39	237.01	237.34	0.19	237.36	0.004865	0.65	0.60	3.11	0.47
T2	4500.35	2 Year	DonPhaseII_Final_Baseline	0.23	237.01	237.28	0.16	237.30	0.004406	0.54	0.42	2.69	0.44
T2	4500.35	5 Year	DonPhaseII_Final_Proposed	0.32	237.01	237.32	0.18	237.34	0.004705	0.61	0.53	2.95	0.46
T2	4500.35	2 Year	DonPhaseII_Final_Proposed	0.23	237.01	237.28	0.16	237.30	0.004406	0.54	0.42	2.69	0.44
T2	4417.05	Regional	DonPhaseII_Final_Baseline	22.33	236.32	238.97	2.54	238.98	0.000125	0.59	96.18	55.04	0.12
T2	4417.05	Regional	DonPhaseII_Final_Proposed	22.33	236.32	238.97	2.54	238.98	0.000125	0.59	96.18	55.04	0.12
T2	4417.05	350 Year	DonPhaseII_Final_Baseline	3.14	236.32	236.85	0.41	236.94	0.010766	1.63	4.25	23.44	0.81
T2	4417.05	350 Year	DonPhaseII_Final_Proposed	3.14	236.32	236.85	0.41	236.94	0.010766	1.63	4.25	23.44	0.81
T2	4417.05	100 Year	DonPhaseII_Final_Baseline	1.50	236.32	236.72	0.28	236.80	0.013415	1.41	1.89	13.61	0.85
T2	4417.05	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	236.32	236.75	0.32	236.84	0.013765	1.54	2.37	14.86	0.88
T2	4417.05	50 Year	DonPhaseII_Final_Baseline	1.20	236.32	236.69	0.26	236.76	0.013262	1.31	1.54	12.70	0.83
T2	4417.05	100 Year	DonPhaseII_Final_Proposed	1.50	236.32	236.72	0.28	236.80	0.013415	1.41	1.89	13.61	0.85
T2	4417.05	25 Year	DonPhaseII_Final_Baseline	0.79	236.32	236.64	0.20	236.71	0.014545	1.19	0.94	10.89	0.84
T2	4417.05	50 Year	DonPhaseII_Final_Proposed	1.20	236.32	236.69	0.26	236.76	0.013262	1.31	1.54	12.70	0.83
T2	4417.05	10 Year	DonPhaseII_Final_Baseline	0.39	236.32	236.55	0.13	236.61	0.021802	1.09	0.38	3.77	0.95
T2	4417.05	25 Year	DonPhaseII_Final_Proposed	0.79	236.32	236.64	0.20	236.71	0.014545	1.19	0.94	10.89	0.84
T2	4417.05	5 Year	DonPhaseII_Final_Baseline	0.32	236.32	236.53	0.12	236.59	0.022915	1.04	0.32	3.38	0.96
T2	4417.05	10 Year	DonPhaseII_Final_Proposed	0.39	236.32	236.55	0.13	236.61	0.021802	1.09	0.38	3.77	0.95
T2	4417.05	2 Year	DonPhaseII_Final_Baseline	0.23	236.32	236.51	0.10	236.55	0.025798	0.97	0.24	2.39	0.99
T2	4417.05	5 Year	DonPhaseII_Final_Proposed	0.32	236.32	236.53	0.12	236.59	0.022915	1.04	0.32	3.38	0.96
T2	4417.05	2 Year	DonPhaseII_Final_Proposed	0.23	236.32	236.51	0.10	236.55	0.025798	0.97	0.24	2.39	0.99
T2	4390.47	Regional	DonPhaseII_Final_Baseline	22.33	235.88	238.97	3.00	238.98	0.000104	0.60	90.17	47.32	0.11
T2	4390.47	Regional	DonPhaseII_Final_Proposed	22.33	235.88	238.97	3.00	238.98	0.000104	0.60	90.17	47.32	0.11
T2	4390.47	350 Year	DonPhaseII_Final_Baseline	3.14	235.88	236.76	0.79	236.78	0.000878	0.72	7.41	14.35	0.26
T2	4390.47	350 Year	DonPhaseII_Final_Proposed	3.14	235.88	236.76	0.79	236.78	0.000878	0.72	7.41	14.35	0.26
T2	4390.47	100 Year	DonPhaseII_Final_Baseline	1.50	235.88	236.29	0.32	236.33	0.005256	0.97	2.16	9.13	0.55
T2	4390.47	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	235.88	236.31	0.34	236.37	0.007560	1.20	2.30	9.24	0.66
T2	4390.47	50 Year	DonPhaseII_Final_Baseline	1.20	235.88	236.21	0.25	236.27	0.009538	1.09	1.47	8.53	0.70
T2	4390.47	100 Year	DonPhaseII_Final_Proposed	1.50	235.88	236.29	0.32	236.33	0.005256	0.97	2.16	9.13	0.55
T2	4390.47	25 Year	DonPhaseII_Final_Baseline	0.79	235.88	236.15	0.19	236.20	0.011511	1.00	0.98	8.06	0.74
T2	4390.47	50 Year	DonPhaseII_Final_Proposed	1.20	235.88	236.21	0.25	236.27	0.009538	1.09	1.47	8.53	0.70
T2	4390.47	10 Year	DonPhaseII_Final_Baseline	0.39	235.88	236.08	0.12	236.12	0.014426	0.85	0.48	4.93	0.77
T2	4390.47	25 Year	DonPhaseII_Final_Proposed	0.79	235.88	236.15	0.19	236.20	0.011511	1.00	0.98	8.06	0.74
T2	4390.47	5 Year	DonPhaseII_Final_Baseline	0.32	235.88	236.06	0.12	236.10	0.014947	0.82	0.39	3.86	0.77
T2	4390.47	10 Year	DonPhaseII_Final_Proposed	0.39	235.88	236.08	0.12	236.12	0.014426	0.85	0.48	4.93	0.77
T2	4390.47	2 Year	DonPhaseII_Final_Baseline	0.23	235.88	236.06	0.11	236.08	0.007970	0.60	0.39	3.78	0.56
T2	4390.47	5 Year	DonPhaseII_Final_Proposed	0.32	235.88	236.06	0.12	236.10	0.014947	0.82	0.39	3.86	0.77
T2	4390.47	2 Year	DonPhaseII_Final_Proposed	0.23	235.88	236.06	0.11	236.08	0.007970	0.60	0.39	3.78	0.56
T2	4345.56	Regional	DonPhaseII_Final_Baseline	22.33	235.55	238.97	3.32	238.97	0.000043	0.42	120.20	59.61	0.07
T2	4345.56	Regional	DonPhaseII_Final_Proposed	22.33	235.55	238.97	3.32	238.97	0.000043	0.42	120.20	59.61	0.07
T2	4345.56	350 Year	DonPhaseII_Final_Baseline	3.14	235.55	236.75	1.10	236.76	0.000227	0.46	14.04	24.46	0.14
T2	4345.56	350 Year	DonPhaseII_Final_Proposed	3.14	235.55	236.75	1.10	236.76	0.000227	0.46	14.04	24.46	0.14
T2	4345.56	100 Year	DonPhaseII_Final_Baseline	1.50	235.55	235.93	0.28	236.01	0.010889	1.27	1.42	7.49	0.77
T2	4345.56	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	235.55	236.05	0.40	236.10	0.004859	1.08	2.54	10.78	0.54
T2	4345.56	50 Year	DonPhaseII_Final_Baseline	1.20	235.55	235.98	0.34	236.02	0.003604	0.83	1.89	9.15	0.45
T2	4345.56	100 Year	DonPhaseII_Final_Proposed	1.50	235.55	235.93	0.28	236.01	0.010889	1.27	1.42	7.49	0.77
T2	4345.56	25 Year	DonPhaseII_Final_Baseline	0.79	235.55	235.92	0.27	235.94	0.003362	0.69	1.36	7.26	0.42
T2	4345.56	50 Year	DonPhaseII_Final_Proposed	1.20	235.55	235.98	0.34	236.02	0.003604	0.83	1.89	9.15	0.45
T2	4345.56	10 Year	DonPhaseII_Final_Baseline	0.39	235.55	235.83	0.19	235.85	0.003148	0.52	0.81	5.57	0.39
T2	4345.56	25 Year	DonPhaseII_Final_Proposed	0.79	235.55	235.92	0.27	235.94	0.003362	0.69	1.36	7.26	0.42
T2	4345.56	5 Year	DonPhaseII_Final_Baseline	0.32	235.55	235.81	0.17	235.83	0.003108	0.48	0.70	5.21	0.38
T2	4345.56	10 Year	DonPhaseII_Final_Proposed	0.39	235.55	235.83	0.19	235.85	0.003148	0.52	0.81	5.57	0.39
T2	4345.56	2 Year	DonPhaseII_Final_Baseline	0.23	235.55	235.76	0.11	235.78	0.005682	0.50	0.46	4.24	0.48
T2	4345.56	5 Year	DonPhaseII_Final_Proposed	0.32	235.55	235.81	0.17	235.83	0.003108	0.48	0.70	5.21	0.38
T2	4345.56	2 Year	DonPhaseII_Final_Proposed	0.23	235.55	235.76	0.11	235.78	0.005682	0.50	0.46	4.24	0.48
T2	4288.98	Regional	DonPhaseII_Final_Baseline	22.33	235.21	238.97	3.65	238.97	0.000029	0.37	164.54	76.69	0.06
T2	4288.98	Regional	DonPhaseII_Final_Proposed	22.33	235.21	238.97	3.65	238.97	0.000029	0.37	164.54	76.69	0.06
T2	4288.98	350 Year	DonPhaseII_Final_Baseline	3.14	235.21	236.75	1.43	236.75	0.000059	0.28	27.06	40.24	0.07
T2	4288.98	350 Year	DonPhaseII_Final_Proposed	3.14	235.21	236.75	1.43	236.75	0.000059	0.28	27.06	40.24	0.07
T2	4288.98	100 Year	DonPhaseII_Final_Baseline	1.50	235.21	235.77	0.45	235.79	0.001710	0.70	3.04	9.00	0.33
T2	4288.98	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	235.21	236.00	0.68	236.01	0.000680	0.57	5.46	13.07	0.22
T2	4288.98	50 Year	DonPhaseII_Final_Baseline	1.20	235.21	235.52	0.20	235.61	0.019921	1.39	1.04	6.71	0.98
T2	4288.98	100 Year	DonPhaseII_Final_Proposed	1.50	235.21	235.77	0.45	235.79	0.001710	0.70	3.04	9.00	0.33
T2	4288.98	25 Year	DonPhaseII_Final_Baseline	0.79	235.21	235.47	0.15	235.54	0.022742	1.23	0.72	6.03	1.00
T2	4288.98	50 Year	DonPhaseII_Final_Proposed	1.20	235.21	235.52	0.20	235.61	0.019921	1.39	1.04	6.71	0.98
T2	4288.98	10 Year	DonPhaseII_Final_Baseline	0.39	235.21	235.40	0.11	235.45	0.025243	1.06	0.40	3.76	1.01
T2	4288.98	25 Year	DonPhaseII_Final_Proposed	0.79	235.21	235.47	0.15	235.54	0.022742	1.23	0.72	6.03	1.00
T2	4288.98	5 Year	DonPhaseII_Final_Baseline	0.32	235.21	235.38	0.11	235.43	0.025976	1.02	0.34	3.46	1.01
T2	4288.98	10 Year	DonPhaseII_Final_Proposed	0.39	235.21	235.40	0.11	235.45	0.025243	1.06	0.40	3.76	1.01
T2	4288.98	2 Year	DonPhaseII_Final_Baseline	0.23	235.21	235.41	0.12	235.43	0.006736	0.57	0.45	3.98	0.52
T2	4288.98	5 Year	DonPhaseII_Final_Proposed	0.32	235.21	235.38	0.11	235.43	0.025976	1.02	0.34	3.46	1.01
T2	4288.98	2 Year	DonPhaseII_Final_Proposed	0.23	235.21	235.41	0.12	235.43	0.006736	0.57	0.45	3.98	0.52
T2	4251.72	Regional	DonPhaseII_Final_Baseline	26.90	234.86	238.97	4.07	238.97	0.000010	0.23	235.36	80.99	0.04
T2	4251.72	Regional	DonPhaseII_Final_Proposed	26.90	234.86	238.97	4.07	238.97	0.000010	0.23	235.36	80.99	0.04
T2	4251.72	350 Year	DonPhaseII_Final_Baseline	5.01	234.86	236.75	1.85	236.75	0.000008	0.12	75.27	62.17	0.03
T2	4251.72	350 Year	DonPhaseII_Final_Proposed	5.01	234.86	236.75	1.85	236.75	0.000008	0.12	75.27	62.17	0.03
T2	4251.72	100 Year	DonPhaseII_Final_Baseline	1.93	234.86	235.78	0.89	235.78	0.000028	0.14	23.09	44.26	0.05
T2	4251.72	1.3*100 Year	DonPhaseII_Final_Proposed	2.51	234.86	236.00	1.11	236.00	0.000018	0.13	33.19	46.96	0.04
T2	4251.72	50 Year	DonPhaseII_Final_Baseline	1.68	234.86	235.54	0.64	235.54	0.000408	0.43	7.83	30.60	0.17
T2	4251.72	100 Year	DonPhaseII_Final_Proposed	1.93	234.86	235.78	0.89	235.78	0.000028	0.14	23.09	44.26	0.05
T2	4251.72	25 Year	DonPhaseII_Final_Baseline	1.27	234.86	235.42	0.52	235.42	0.000505	0.41	5.88	27.49	0.18
T2	4251.72	50 Year	DonPhaseII_Final_Proposed	1.68	234.86	235.54	0.64	235.54	0.000408	0.43	7.83	30.60	0.17
T2	4251.72	10 Year	DonPhaseII_Final_Baseline	0.93	234.86	235.27	0.37	235.28	0.000904	0.45	3.83	24.38	0.23
T2	4251.72	25 Year	DonPhaseII_Final_Proposed	1.27	234.86	235.42	0.52	235.42	0.000505	0.41	5.88	27.49	0.18
T2	4251.72	5 Year	DonPhaseII_Final_Baseline	0.59	234.86	235.12	0.22	235.13	0.002531	0.53	1.92	20.54	0.36
T2	4251.72	10 Year	DonPhaseII_Final_Proposed	0.93	234.86	235.27	0.37	235.28	0.000904	0.45	3.83	24.38	0.23
T2	4251.72	2 Year	DonPhaseII_Final_Baseline	0.21	234.86	234.95	0.06	234.98	0.036736	0.86	0.38	10.82	1.10
T2	4251.72	5 Year	DonPhaseII_Final_Proposed	0.59	234.86	235.12	0.22	235.13	0.002531	0.53	1.92	20.54	0.36
T2	4251.72	2 Year	DonPhaseII_Final_Proposed	0.21	234.86	234.95	0.06	234.98	0.036736	0.86	0.38	10.82	1.10

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	4190.9	Regional	DonPhaseII_Final_Baseline	26.90	234.54	238.97	4.41	238.97	0.000023	0.36	195.62	100.02	0.06
T2	4190.9	Regional	DonPhaseII_Final_Proposed	26.90	234.54	238.97	4.41	238.97	0.000023	0.36	195.62	100.02	0.06
T2	4190.9	350 Year	DonPhaseII_Final_Baseline	5.01	234.54	236.75	2.19	236.75	0.000022	0.23	57.53	48.00	0.05
T2	4190.9	350 Year	DonPhaseII_Final_Proposed	5.01	234.54	236.75	2.19	236.75	0.000022	0.23	57.53	48.00	0.05
T2	4190.9	100 Year	DonPhaseII_Final_Baseline	1.93	234.54	235.78	1.22	235.78	0.000065	0.26	16.99	32.66	0.08
T2	4190.9	1.3*100 Year	DonPhaseII_Final_Proposed	2.51	234.54	236.00	1.44	236.00	0.000047	0.25	24.82	37.97	0.07
T2	4190.9	50 Year	DonPhaseII_Final_Baseline	1.68	234.54	235.52	0.97	235.53	0.000151	0.34	9.68	24.21	0.11
T2	4190.9	100 Year	DonPhaseII_Final_Proposed	1.93	234.54	235.78	1.22	235.78	0.000065	0.26	16.99	32.66	0.08
T2	4190.9	25 Year	DonPhaseII_Final_Baseline	1.27	234.54	235.40	0.84	235.41	0.000156	0.32	7.02	19.11	0.11
T2	4190.9	50 Year	DonPhaseII_Final_Proposed	1.68	234.54	235.52	0.97	235.53	0.000151	0.34	9.68	24.21	0.11
T2	4190.9	10 Year	DonPhaseII_Final_Baseline	0.93	234.54	235.25	0.70	235.26	0.000174	0.30	4.83	12.86	0.11
T2	4190.9	25 Year	DonPhaseII_Final_Proposed	1.27	234.54	235.40	0.84	235.41	0.000156	0.32	7.02	19.11	0.11
T2	4190.9	5 Year	DonPhaseII_Final_Baseline	0.59	234.54	235.10	0.54	235.10	0.000174	0.25	3.18	8.33	0.11
T2	4190.9	10 Year	DonPhaseII_Final_Proposed	0.93	234.54	235.25	0.70	235.26	0.000174	0.30	4.83	12.86	0.11
T2	4190.9	2 Year	DonPhaseII_Final_Baseline	0.21	234.54	234.84	0.28	234.84	0.000216	0.18	1.35	5.90	0.11
T2	4190.9	5 Year	DonPhaseII_Final_Proposed	0.59	234.54	235.10	0.54	235.10	0.000174	0.25	3.18	8.33	0.11
T2	4190.9	2 Year	DonPhaseII_Final_Proposed	0.21	234.54	234.84	0.28	234.84	0.000216	0.18	1.35	5.90	0.11
T2	4185.26	Regional	DonPhaseII_Final_Baseline	33.27	234.39	238.97	4.25	238.97	0.000046	0.35	180.23	83.77	0.05
T2	4185.26	Regional	DonPhaseII_Final_Proposed	33.27	234.39	238.97	4.25	238.97	0.000046	0.35	180.23	83.77	0.05
T2	4185.26	350 Year	DonPhaseII_Final_Baseline	8.18	234.39	236.69	2.13	236.73	0.000396	0.92	8.85	45.63	0.20
T2	4185.26	350 Year	DonPhaseII_Final_Proposed	8.18	234.39	236.69	2.13	236.73	0.000396	0.92	8.85	45.63	0.20
T2	4185.26	100 Year	DonPhaseII_Final_Baseline	3.37	234.39	235.75	1.19	235.77	0.000470	0.68	4.94	26.69	0.20
T2	4185.26	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	234.39	235.96	1.40	235.99	0.000455	0.75	5.83	32.82	0.20
T2	4185.26	50 Year	DonPhaseII_Final_Baseline	2.92	234.39	235.49	0.93	235.52	0.000803	0.76	3.86	15.76	0.25
T2	4185.26	100 Year	DonPhaseII_Final_Proposed	3.37	234.39	235.75	1.19	235.77	0.000470	0.68	4.94	26.69	0.20
T2	4185.26	25 Year	DonPhaseII_Final_Baseline	2.39	234.39	235.37	0.81	235.40	0.000848	0.71	3.36	12.55	0.25
T2	4185.26	50 Year	DonPhaseII_Final_Proposed	2.92	234.39	235.49	0.93	235.52	0.000803	0.76	3.86	15.76	0.25
T2	4185.26	10 Year	DonPhaseII_Final_Baseline	1.80	234.39	235.23	0.67	235.25	0.000921	0.65	2.77	9.89	0.25
T2	4185.26	25 Year	DonPhaseII_Final_Proposed	2.39	234.39	235.37	0.81	235.40	0.000848	0.71	3.36	12.55	0.25
T2	4185.26	5 Year	DonPhaseII_Final_Baseline	1.25	234.39	235.08	0.51	235.09	0.001045	0.58	2.14	6.53	0.26
T2	4185.26	10 Year	DonPhaseII_Final_Proposed	1.80	234.39	235.23	0.67	235.25	0.000921	0.65	2.77	9.89	0.25
T2	4185.26	2 Year	DonPhaseII_Final_Baseline	0.53	234.39	234.82	0.27	234.84	0.001748	0.49	1.09	4.20	0.30
T2	4185.26	5 Year	DonPhaseII_Final_Proposed	1.25	234.39	235.08	0.51	235.09	0.001045	0.58	2.14	6.53	0.26
T2	4185.26	2 Year	DonPhaseII_Final_Proposed	0.53	234.39	234.82	0.27	234.84	0.001748	0.49	1.09	4.20	0.30
T2	4160.62			Culvert									
T2	4133.19	Regional	DonPhaseII_Final_Baseline	33.27	233.90	235.99	1.92	236.95	0.010962	4.34	7.67	63.93	1.00
T2	4133.19	Regional	DonPhaseII_Final_Proposed	33.27	233.90	235.99	1.92	236.95	0.010962	4.34	7.67	63.93	1.00
T2	4133.19	350 Year	DonPhaseII_Final_Baseline	8.18	233.90	234.83	0.75	235.21	0.014511	2.72	3.01	22.98	1.00
T2	4133.19	350 Year	DonPhaseII_Final_Proposed	8.18	233.90	234.83	0.75	235.21	0.014511	2.72	3.01	22.98	1.00
T2	4133.19	100 Year	DonPhaseII_Final_Baseline	3.37	233.90	234.49	0.42	234.70	0.016702	2.02	1.67	10.20	1.00
T2	4133.19	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	233.90	234.57	0.50	234.82	0.016163	2.21	1.98	11.87	1.00
T2	4133.19	50 Year	DonPhaseII_Final_Baseline	2.92	233.90	234.46	0.38	234.64	0.016724	1.92	1.52	9.28	0.99
T2	4133.19	100 Year	DonPhaseII_Final_Proposed	3.37	233.90	234.49	0.42	234.70	0.016702	2.02	1.67	10.20	1.00
T2	4133.19	25 Year	DonPhaseII_Final_Baseline	2.39	233.90	234.41	0.33	234.57	0.017138	1.80	1.33	6.93	0.99
T2	4133.19	50 Year	DonPhaseII_Final_Proposed	2.92	233.90	234.46	0.38	234.64	0.016724	1.92	1.52	9.28	0.99
T2	4133.19	10 Year	DonPhaseII_Final_Baseline	1.80	233.90	234.35	0.28	234.49	0.017712	1.64	1.10	5.30	1.00
T2	4133.19	25 Year	DonPhaseII_Final_Proposed	2.39	233.90	234.41	0.33	234.57	0.017138	1.80	1.33	6.93	0.99
T2	4133.19	5 Year	DonPhaseII_Final_Baseline	1.25	233.90	234.29	0.22	234.40	0.018053	1.46	0.86	4.33	1.00
T2	4133.19	10 Year	DonPhaseII_Final_Proposed	1.80	233.90	234.35	0.28	234.49	0.017712	1.64	1.10	5.30	1.00
T2	4133.19	2 Year	DonPhaseII_Final_Baseline	0.53	233.90	234.18	0.15	234.25	0.022779	1.18	0.45	3.06	0.99
T2	4133.19	5 Year	DonPhaseII_Final_Proposed	1.25	233.90	234.29	0.22	234.40	0.018053	1.46	0.86	4.33	1.00
T2	4133.19	2 Year	DonPhaseII_Final_Proposed	0.53	233.90	234.18	0.15	234.25	0.022779	1.18	0.45	3.06	0.99
T2	4125.45	Regional	DonPhaseII_Final_Baseline	33.27	233.47	235.08	1.56	235.51	0.011853	4.17	15.24	60.36	1.07
T2	4125.45	Regional	DonPhaseII_Final_Proposed	33.27	233.47	235.08	1.56	235.51	0.011853	4.17	15.24	60.36	1.07
T2	4125.45	350 Year	DonPhaseII_Final_Baseline	8.18	233.47	234.31	0.79	234.55	0.012970	2.77	4.70	27.67	1.00
T2	4125.45	350 Year	DonPhaseII_Final_Proposed	8.18	233.47	234.31	0.79	234.55	0.012970	2.77	4.70	27.67	1.00
T2	4125.45	100 Year	DonPhaseII_Final_Baseline	3.37	233.47	234.04	0.53	234.20	0.012751	2.09	2.41	7.58	0.92
T2	4125.45	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	233.47	234.11	0.59	234.29	0.012980	2.29	2.93	8.12	0.95
T2	4125.45	50 Year	DonPhaseII_Final_Baseline	2.92	233.47	234.00	0.49	234.16	0.013345	2.04	2.12	7.21	0.93
T2	4125.45	100 Year	DonPhaseII_Final_Proposed	3.37	233.47	234.04	0.53	234.20	0.012751	2.09	2.41	7.58	0.92
T2	4125.45	25 Year	DonPhaseII_Final_Baseline	2.39	233.47	233.96	0.44	234.10	0.013546	1.92	1.80	6.73	0.92
T2	4125.45	50 Year	DonPhaseII_Final_Proposed	2.92	233.47	234.00	0.49	234.16	0.013345	2.04	2.12	7.21	0.93
T2	4125.45	10 Year	DonPhaseII_Final_Baseline	1.80	233.47	233.90	0.38	234.02	0.013816	1.77	1.43	6.13	0.91
T2	4125.45	25 Year	DonPhaseII_Final_Proposed	2.39	233.47	233.96	0.44	234.10	0.013546	1.92	1.80	6.73	0.92
T2	4125.45	5 Year	DonPhaseII_Final_Baseline	1.25	233.47	233.83	0.31	233.94	0.015492	1.63	1.02	5.18	0.93
T2	4125.45	10 Year	DonPhaseII_Final_Proposed	1.80	233.47	233.90	0.38	234.02	0.013816	1.77	1.43	6.13	0.91
T2	4125.45	2 Year	DonPhaseII_Final_Baseline	0.53	233.47	233.71	0.19	233.78	0.019092	1.29	0.48	3.61	0.95
T2	4125.45	5 Year	DonPhaseII_Final_Proposed	1.25	233.47	233.83	0.31	233.94	0.015492	1.63	1.02	5.18	0.93
T2	4125.45	2 Year	DonPhaseII_Final_Proposed	0.53	233.47	233.71	0.19	233.78	0.019092	1.29	0.48	3.61	0.95
T2	4102.1	Regional	DonPhaseII_Final_Baseline	33.27	232.64	234.45	1.73	234.91	0.010427	4.17	14.39	107.33	1.01
T2	4102.1	Regional	DonPhaseII_Final_Proposed	33.27	232.64	234.45	1.73	234.91	0.010427	4.17	14.39	107.33	1.01
T2	4102.1	350 Year	DonPhaseII_Final_Baseline	8.18	232.64	233.67	0.96	233.93	0.009910	2.74	4.80	97.62	0.89
T2	4102.1	350 Year	DonPhaseII_Final_Proposed	8.18	232.64	233.67	0.96	233.93	0.009910	2.74	4.80	97.62	0.89
T2	4102.1	100 Year	DonPhaseII_Final_Baseline	3.37	232.64	233.32	0.61	233.52	0.011994	2.22	2.10	92.14	0.91
T2	4102.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	232.64	233.41	0.70	233.63	0.011415	2.38	2.67	93.57	0.91
T2	4102.1	50 Year	DonPhaseII_Final_Baseline	2.92	232.64	233.28	0.56	233.47	0.012313	2.14	1.85	91.49	0.91
T2	4102.1	100 Year	DonPhaseII_Final_Proposed	3.37	232.64	233.32	0.61	233.52	0.011994	2.22	2.10	92.14	0.91
T2	4102.1	25 Year	DonPhaseII_Final_Baseline	2.39	232.64	233.21	0.50	233.39	0.013106	2.04	1.53	90.59	0.92
T2	4102.1	50 Year	DonPhaseII_Final_Proposed	2.92	232.64	233.28	0.56	233.47	0.012313	2.14	1.85	91.49	0.91
T2	4102.1	10 Year	DonPhaseII_Final_Baseline	1.80	232.64	233.14	0.42	233.30	0.014200	1.90	1.19	89.50	0.93
T2	4102.1	25 Year	DonPhaseII_Final_Proposed	2.39	232.64	233.21	0.50	233.39	0.013106	2.04	1.53	90.59	0.92
T2	4102.1	5 Year	DonPhaseII_Final_Baseline	1.25	232.64	233.05	0.34	233.19	0.015553	1.71	0.87	88.43	0.94
T2	4102.1	10 Year	DonPhaseII_Final_Proposed	1.80	232.64	233.14	0.42	233.30	0.014200	1.90	1.19	89.50	0.93
T2	4102.1	2 Year	DonPhaseII_Final_Baseline	0.53	232.64	232.92	0.21	233.00	0.016581	1.27	0.45	86.91	0.90
T2	4102.1	5 Year	DonPhaseII_Final_Proposed	1.25	232.64	233.05	0.34	233.19	0.015553	1.71	0.87	88.43	0.94
T2	4102.1	2 Year	DonPhaseII_Final_Proposed	0.53	232.64	232.92	0.21	233.00	0.016581	1.27	0.45	86.91	0.90
T2	4080.9	Regional	DonPhaseII_Final_Baseline	33.27	232.19	234.67	2.34	234.68	0.000019	0.21	148.23	73.32	0.04
T2	4080.9	Regional	DonPhaseII_Final_Proposed	33.27	232.19	234.67	2.34	234.68	0.000019	0.21	148.23	73.32	0.04
T2	4080.9	350 Year	DonPhaseII_Final_Baseline	8.18	232.19	233.27	0.94	233.53	0.010267	2.71	4.72	46.13	0.89
T2	4080.9	350 Year	DonPhaseII_Final_Proposed	8.18	232.19	233.27	0.94	233.53	0.010267	2.71	4.72	46.13	0.89

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	4080.9	100 Year	DonPhaseII_Final_Baseline	3.37	232.19	232.94	0.61	233.14	0.011997	2.18	2.11	40.66	0.89
T2	4080.9	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	232.19	233.04	0.71	233.24	0.010711	2.28	2.77	42.50	0.87
T2	4080.9	50 Year	DonPhaseII_Final_Baseline	2.92	232.19	232.89	0.56	233.08	0.012491	2.11	1.84	39.74	0.90
T2	4080.9	100 Year	DonPhaseII_Final_Proposed	3.37	232.19	232.94	0.61	233.14	0.011997	2.18	2.11	40.66	0.89
T2	4080.9	25 Year	DonPhaseII_Final_Baseline	2.39	232.19	232.84	0.51	233.01	0.012569	1.98	1.56	38.90	0.89
T2	4080.9	50 Year	DonPhaseII_Final_Proposed	2.92	232.19	232.89	0.56	233.08	0.012491	2.11	1.84	39.74	0.90
T2	4080.9	10 Year	DonPhaseII_Final_Baseline	1.80	232.19	232.75	0.42	232.92	0.014446	1.88	1.17	37.54	0.92
T2	4080.9	25 Year	DonPhaseII_Final_Proposed	2.39	232.19	232.84	0.51	233.01	0.012569	1.98	1.56	38.90	0.89
T2	4080.9	5 Year	DonPhaseII_Final_Baseline	1.25	232.19	232.66	0.33	232.80	0.017458	1.75	0.81	35.90	0.97
T2	4080.9	10 Year	DonPhaseII_Final_Proposed	1.80	232.19	232.75	0.42	232.92	0.014446	1.88	1.17	37.54	0.92
T2	4080.9	2 Year	DonPhaseII_Final_Baseline	0.53	232.19	232.51	0.20	232.61	0.020959	1.38	0.41	33.99	0.98
T2	4080.9	5 Year	DonPhaseII_Final_Proposed	1.25	232.19	232.66	0.33	232.80	0.017458	1.75	0.81	35.90	0.97
T2	4080.9	2 Year	DonPhaseII_Final_Proposed	0.53	232.19	232.51	0.20	232.61	0.020959	1.38	0.41	33.99	0.98
T2	4047.42	Regional	DonPhaseII_Final_Baseline	33.27	231.55	234.67	3.02	234.68	0.000017	0.24	158.61	73.34	0.04
T2	4047.42	Regional	DonPhaseII_Final_Proposed	33.27	231.55	234.67	3.02	234.68	0.000017	0.24	158.61	73.34	0.04
T2	4047.42	350 Year	DonPhaseII_Final_Baseline	8.18	231.55	232.69	1.04	232.99	0.009432	2.81	4.44	41.86	0.88
T2	4047.42	350 Year	DonPhaseII_Final_Proposed	8.18	231.55	232.69	1.04	232.99	0.009432	2.81	4.44	41.86	0.88
T2	4047.42	100 Year	DonPhaseII_Final_Baseline	3.37	231.55	232.26	0.61	232.52	0.014167	2.41	1.74	32.49	0.99
T2	4047.42	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	231.55	232.40	0.75	232.66	0.010768	2.42	2.45	35.97	0.89
T2	4047.42	50 Year	DonPhaseII_Final_Baseline	2.92	231.55	232.23	0.57	232.45	0.013205	2.24	1.60	31.88	0.94
T2	4047.42	100 Year	DonPhaseII_Final_Proposed	3.37	231.55	232.26	0.61	232.52	0.014167	2.41	1.74	32.49	0.99
T2	4047.42	25 Year	DonPhaseII_Final_Baseline	2.39	231.55	232.16	0.51	232.37	0.013554	2.10	1.36	31.00	0.94
T2	4047.42	50 Year	DonPhaseII_Final_Proposed	2.92	231.55	232.23	0.57	232.45	0.013205	2.24	1.60	31.88	0.94
T2	4047.42	10 Year	DonPhaseII_Final_Baseline	1.80	231.55	232.08	0.43	232.26	0.014799	1.94	1.07	29.88	0.95
T2	4047.42	25 Year	DonPhaseII_Final_Proposed	2.39	231.55	232.16	0.51	232.37	0.013554	2.10	1.36	31.00	0.94
T2	4047.42	5 Year	DonPhaseII_Final_Baseline	1.25	231.55	231.99	0.34	232.14	0.016235	1.75	0.79	28.72	0.96
T2	4047.42	10 Year	DonPhaseII_Final_Proposed	1.80	231.55	232.08	0.43	232.26	0.014799	1.94	1.07	29.88	0.95
T2	4047.42	2 Year	DonPhaseII_Final_Baseline	0.53	231.55	231.90	0.25	231.95	0.009008	1.05	0.54	27.49	0.68
T2	4047.42	5 Year	DonPhaseII_Final_Proposed	1.25	231.55	231.99	0.34	232.14	0.016235	1.75	0.79	28.72	0.96
T2	4047.42	2 Year	DonPhaseII_Final_Proposed	0.53	231.55	231.90	0.25	231.95	0.009008	1.05	0.54	27.49	0.68
T2	4011.49	Regional	DonPhaseII_Final_Baseline	33.27	231.19	234.67	3.41	234.67	0.000123	0.71	107.60	77.77	0.12
T2	4011.49	Regional	DonPhaseII_Final_Proposed	33.27	231.19	234.67	3.41	234.67	0.000123	0.71	107.60	77.77	0.12
T2	4011.49	350 Year	DonPhaseII_Final_Baseline	8.18	231.19	232.38	1.12	232.39	0.000459	0.66	19.98	24.48	0.20
T2	4011.49	350 Year	DonPhaseII_Final_Proposed	8.18	231.19	232.38	1.12	232.39	0.000459	0.66	19.98	24.48	0.20
T2	4011.49	100 Year	DonPhaseII_Final_Baseline	3.37	231.19	231.79	0.53	231.81	0.002246	0.88	6.53	21.07	0.39
T2	4011.49	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	231.19	231.91	0.66	231.93	0.001355	0.79	9.25	21.93	0.31
T2	4011.49	50 Year	DonPhaseII_Final_Baseline	2.92	231.19	231.72	0.47	231.75	0.003279	0.98	5.19	20.63	0.46
T2	4011.49	100 Year	DonPhaseII_Final_Proposed	3.37	231.19	231.79	0.53	231.81	0.002246	0.88	6.53	21.07	0.39
T2	4011.49	25 Year	DonPhaseII_Final_Baseline	2.39	231.19	231.64	0.38	231.69	0.006656	1.22	3.46	19.72	0.63
T2	4011.49	50 Year	DonPhaseII_Final_Proposed	2.92	231.19	231.72	0.47	231.75	0.003279	0.98	5.19	20.63	0.46
T2	4011.49	10 Year	DonPhaseII_Final_Baseline	1.80	231.19	231.58	0.32	231.64	0.009619	1.31	2.35	18.79	0.74
T2	4011.49	25 Year	DonPhaseII_Final_Proposed	2.39	231.19	231.64	0.38	231.69	0.006656	1.22	3.46	19.72	0.63
T2	4011.49	5 Year	DonPhaseII_Final_Baseline	1.25	231.19	231.54	0.28	231.60	0.009460	1.20	1.65	16.86	0.72
T2	4011.49	10 Year	DonPhaseII_Final_Proposed	1.80	231.19	231.58	0.32	231.64	0.009619	1.31	2.35	18.79	0.74
T2	4011.49	2 Year	DonPhaseII_Final_Baseline	0.53	231.19	231.41	0.15	231.48	0.021864	1.18	0.46	3.68	0.98
T2	4011.49	5 Year	DonPhaseII_Final_Proposed	1.25	231.19	231.54	0.28	231.60	0.009460	1.20	1.65	16.86	0.72
T2	4011.49	2 Year	DonPhaseII_Final_Proposed	0.53	231.19	231.41	0.15	231.48	0.021864	1.18	0.46	3.68	0.98
T2	4004.54	Regional	DonPhaseII_Final_Baseline	35.01	231.04	234.63	3.52	234.66	0.000351	1.23	64.19	71.05	0.21
T2	4004.54	Regional	DonPhaseII_Final_Proposed	35.01	231.04	234.63	3.52	234.66	0.000351	1.23	64.19	71.05	0.21
T2	4004.54	350 Year	DonPhaseII_Final_Baseline	8.74	231.04	232.31	1.20	232.37	0.001630	1.29	9.08	13.04	0.38
T2	4004.54	350 Year	DonPhaseII_Final_Proposed	8.74	231.04	232.31	1.20	232.37	0.001630	1.29	9.08	13.04	0.38
T2	4004.54	100 Year	DonPhaseII_Final_Baseline	3.49	231.04	231.73	0.62	231.78	0.003021	1.14	4.00	8.87	0.46
T2	4004.54	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	231.04	231.85	0.74	231.91	0.002672	1.20	4.96	9.56	0.45
T2	4004.54	50 Year	DonPhaseII_Final_Baseline	3.00	231.04	231.68	0.57	231.72	0.003198	1.10	3.54	8.53	0.47
T2	4004.54	100 Year	DonPhaseII_Final_Proposed	3.49	231.04	231.73	0.62	231.78	0.003021	1.14	4.00	8.87	0.46
T2	4004.54	25 Year	DonPhaseII_Final_Baseline	2.44	231.04	231.61	0.50	231.65	0.003404	1.04	3.03	8.14	0.47
T2	4004.54	50 Year	DonPhaseII_Final_Proposed	3.00	231.04	231.68	0.57	231.72	0.003198	1.10	3.54	8.53	0.47
T2	4004.54	10 Year	DonPhaseII_Final_Baseline	1.84	231.04	231.53	0.42	231.57	0.003608	0.96	2.46	7.69	0.47
T2	4004.54	25 Year	DonPhaseII_Final_Proposed	2.44	231.04	231.61	0.50	231.65	0.003404	1.04	3.03	8.14	0.47
T2	4004.54	5 Year	DonPhaseII_Final_Baseline	1.29	231.04	231.46	0.35	231.49	0.003632	0.85	1.94	7.23	0.46
T2	4004.54	10 Year	DonPhaseII_Final_Proposed	1.84	231.04	231.53	0.42	231.57	0.003608	0.96	2.46	7.69	0.47
T2	4004.54	2 Year	DonPhaseII_Final_Baseline	0.56	231.04	231.33	0.22	231.35	0.003876	0.65	1.08	6.31	0.44
T2	4004.54	5 Year	DonPhaseII_Final_Proposed	1.29	231.04	231.46	0.35	231.49	0.003632	0.85	1.94	7.23	0.46
T2	4004.54	2 Year	DonPhaseII_Final_Proposed	0.56	231.04	231.33	0.22	231.35	0.003876	0.65	1.08	6.31	0.44
T2	3988.69			Culvert									
T2	3967.29	Regional	DonPhaseII_Final_Baseline	35.01	231.02	232.56	1.46	233.21	0.011355	3.91	12.14	11.77	1.03
T2	3967.29	Regional	DonPhaseII_Final_Proposed	35.01	231.02	232.56	1.46	233.21	0.011355	3.91	12.14	11.77	1.03
T2	3967.29	350 Year	DonPhaseII_Final_Baseline	8.74	231.02	231.79	0.70	232.02	0.009904	2.23	5.05	8.91	0.85
T2	3967.29	350 Year	DonPhaseII_Final_Proposed	8.74	231.02	231.79	0.70	232.02	0.009904	2.23	5.05	8.91	0.85
T2	3967.29	100 Year	DonPhaseII_Final_Baseline	3.49	231.02	231.52	0.42	231.63	0.009159	1.54	2.74	7.93	0.76
T2	3967.29	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	231.02	231.55	0.46	231.71	0.011841	1.84	3.01	8.07	0.87
T2	3967.29	50 Year	DonPhaseII_Final_Baseline	3.00	231.02	231.50	0.41	231.59	0.007901	1.39	2.60	7.86	0.70
T2	3967.29	100 Year	DonPhaseII_Final_Proposed	3.49	231.02	231.52	0.42	231.63	0.009159	1.54	2.74	7.93	0.76
T2	3967.29	25 Year	DonPhaseII_Final_Baseline	2.44	231.02	231.48	0.39	231.55	0.006096	1.18	2.46	7.78	0.61
T2	3967.29	50 Year	DonPhaseII_Final_Proposed	3.00	231.02	231.50	0.41	231.59	0.007901	1.39	2.60	7.86	0.70
T2	3967.29	10 Year	DonPhaseII_Final_Baseline	1.84	231.02	231.45	0.35	231.50	0.004893	0.99	2.18	7.64	0.54
T2	3967.29	25 Year	DonPhaseII_Final_Proposed	2.44	231.02	231.48	0.39	231.55	0.006096	1.18	2.46	7.78	0.61
T2	3967.29	5 Year	DonPhaseII_Final_Baseline	1.29	231.02	231.41	0.31	231.44	0.003625	0.79	1.89	7.48	0.45
T2	3967.29	10 Year	DonPhaseII_Final_Proposed	1.84	231.02	231.45	0.35	231.50	0.004893	0.99	2.18	7.64	0.54
T2	3967.29	2 Year	DonPhaseII_Final_Baseline	0.56	231.02	231.32	0.22	231.33	0.002334	0.50	1.22	6.82	0.34
T2	3967.29	5 Year	DonPhaseII_Final_Proposed	1.29	231.02	231.41	0.31	231.44	0.003625	0.79	1.89	7.48	0.45
T2	3967.29	2 Year	DonPhaseII_Final_Proposed	0.56	231.02	231.32	0.22	231.33	0.002334	0.50	1.22	6.82	0.34
T2	3954.97	Regional	DonPhaseII_Final_Baseline	35.01	231.03	232.41	1.35	232.48	0.002911	1.88	37.71	49.13	0.52
T2	3954.97	Regional	DonPhaseII_Final_Proposed	35.01	231.03	232.41	1.35	232.48	0.002911	1.88	37.71	49.13	0.52
T2	3954.97	350 Year	DonPhaseII_Final_Baseline	8.74	231.03	231.85	0.79	231.87	0.001671	1.00	16.53	28.83	0.36
T2	3954.97	350 Year	DonPhaseII_Final_Proposed	8.74	231.03	231.85	0.79	231.87	0.001671	1.00	16.53	28.83	0.36
T2	3954.97	100 Year	DonPhaseII_Final_Baseline	3.49	231.03	231.45	0.39	231.49	0.007653	1.33	5.44	25.83	0.68
T2	3954.97	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	231.03	231.48	0.42	231.54	0.008180	1.46	6.38	26.18	0.72
T2	3954.97	50 Year	DonPhaseII_Final_Baseline	3.00	231.03	231.44	0.38	231.48	0.006053	1.17	5.31	25.47	0.60
T2	3954.97	100 Year	DonPhaseII_Final_Proposed	3.49	231.03	231.45	0.39	231.49	0.007653	1.33	5.44	25.83	0.68
T2	3954.97	25 Year	DonPhaseII_Final_Baseline	2.44	231.03	231.45	0.39	231.47	0.003865	0.94	5.38	25.66	0.48

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	3954.97	50 Year	DonPhaseII_Final_Proposed	3.00	231.03	231.44	0.38	231.48	0.006053	1.17	5.31	25.47	0.60
T2	3954.97	10 Year	DonPhaseII_Final_Baseline	1.84	231.03	231.41	0.35	231.43	0.003896	0.88	4.41	23.75	0.48
T2	3954.97	25 Year	DonPhaseII_Final_Proposed	2.44	231.03	231.45	0.39	231.47	0.003865	0.94	5.38	25.66	0.48
T2	3954.97	5 Year	DonPhaseII_Final_Baseline	1.29	231.03	231.37	0.31	231.39	0.003286	0.76	3.63	22.66	0.43
T2	3954.97	10 Year	DonPhaseII_Final_Proposed	1.84	231.03	231.41	0.35	231.43	0.003896	0.88	4.41	23.75	0.48
T2	3954.97	2 Year	DonPhaseII_Final_Baseline	0.56	231.03	231.27	0.21	231.29	0.004939	0.70	1.52	14.92	0.49
T2	3954.97	5 Year	DonPhaseII_Final_Proposed	1.29	231.03	231.37	0.31	231.39	0.003286	0.76	3.63	22.66	0.43
T2	3954.97	2 Year	DonPhaseII_Final_Proposed	0.56	231.03	231.27	0.21	231.29	0.004939	0.70	1.52	14.92	0.49
T2	3900.02	Regional	DonPhaseII_Final_Baseline	35.01	230.72	232.36	1.61	232.40	0.000887	1.17	47.67	41.99	0.29
T2	3900.02	Regional	DonPhaseII_Final_Proposed	35.01	230.72	232.36	1.61	232.40	0.000887	1.17	47.67	41.99	0.29
T2	3900.02	350 Year	DonPhaseII_Final_Baseline	8.74	230.72	231.83	1.08	231.84	0.000313	0.53	26.48	38.02	0.16
T2	3900.02	350 Year	DonPhaseII_Final_Proposed	8.74	230.72	231.83	1.08	231.84	0.000313	0.53	26.48	38.02	0.16
T2	3900.02	100 Year	DonPhaseII_Final_Baseline	3.49	230.72	231.25	0.50	231.27	0.002722	0.94	7.07	27.40	0.42
T2	3900.02	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	230.72	231.39	0.64	231.40	0.001139	0.71	11.01	29.86	0.29
T2	3900.02	50 Year	DonPhaseII_Final_Baseline	3.00	230.72	231.18	0.43	231.21	0.004831	1.13	5.20	25.12	0.55
T2	3900.02	100 Year	DonPhaseII_Final_Proposed	3.49	230.72	231.25	0.50	231.27	0.002722	0.94	7.07	27.40	0.42
T2	3900.02	25 Year	DonPhaseII_Final_Baseline	2.44	230.72	231.09	0.34	231.16	0.012480	1.56	3.18	21.59	0.85
T2	3900.02	50 Year	DonPhaseII_Final_Proposed	3.00	230.72	231.18	0.43	231.21	0.004831	1.13	5.20	25.12	0.55
T2	3900.02	10 Year	DonPhaseII_Final_Baseline	1.84	230.72	231.07	0.32	231.12	0.011359	1.42	2.66	20.65	0.80
T2	3900.02	25 Year	DonPhaseII_Final_Proposed	2.44	230.72	231.09	0.34	231.16	0.012480	1.56	3.18	21.59	0.85
T2	3900.02	5 Year	DonPhaseII_Final_Baseline	1.29	230.72	231.01	0.26	231.08	0.016855	1.50	1.61	12.09	0.94
T2	3900.02	10 Year	DonPhaseII_Final_Proposed	1.84	230.72	231.07	0.32	231.12	0.011359	1.42	2.66	20.65	0.80
T2	3900.02	2 Year	DonPhaseII_Final_Baseline	0.56	230.72	230.96	0.21	230.99	0.007283	0.86	1.16	8.75	0.60
T2	3900.02	5 Year	DonPhaseII_Final_Proposed	1.29	230.72	231.01	0.26	231.08	0.016855	1.50	1.61	12.09	0.94
T2	3900.02	2 Year	DonPhaseII_Final_Proposed	0.56	230.72	230.96	0.21	230.99	0.007283	0.86	1.16	8.75	0.60
T2	3842.41	Regional	DonPhaseII_Final_Baseline	35.01	230.26	232.19	1.80	232.31	0.002696	2.18	33.43	28.07	0.52
T2	3842.41	Regional	DonPhaseII_Final_Proposed	35.01	230.26	232.19	1.80	232.31	0.002696	2.18	33.43	28.07	0.52
T2	3842.41	350 Year	DonPhaseII_Final_Baseline	8.74	230.26	231.81	1.42	231.82	0.000392	0.71	24.49	22.02	0.19
T2	3842.41	350 Year	DonPhaseII_Final_Proposed	8.74	230.26	231.81	1.42	231.82	0.000392	0.71	24.49	22.02	0.19
T2	3842.41	100 Year	DonPhaseII_Final_Baseline	3.49	230.26	231.21	0.81	231.22	0.000514	0.56	11.95	19.65	0.20
T2	3842.41	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	230.26	231.36	0.96	231.37	0.000453	0.59	14.93	20.28	0.19
T2	3842.41	50 Year	DonPhaseII_Final_Baseline	3.00	230.26	231.13	0.74	231.14	0.000564	0.55	10.43	19.31	0.20
T2	3842.41	100 Year	DonPhaseII_Final_Proposed	3.49	230.26	231.21	0.81	231.22	0.000514	0.56	11.95	19.65	0.20
T2	3842.41	25 Year	DonPhaseII_Final_Baseline	2.44	230.26	231.03	0.64	231.04	0.000663	0.54	8.54	18.83	0.22
T2	3842.41	50 Year	DonPhaseII_Final_Proposed	3.00	230.26	231.13	0.74	231.14	0.000564	0.55	10.43	19.31	0.20
T2	3842.41	10 Year	DonPhaseII_Final_Baseline	1.84	230.26	230.91	0.52	230.92	0.000849	0.54	6.39	18.00	0.24
T2	3842.41	25 Year	DonPhaseII_Final_Proposed	2.44	230.26	231.03	0.64	231.04	0.000663	0.54	8.54	18.83	0.22
T2	3842.41	5 Year	DonPhaseII_Final_Baseline	1.29	230.26	230.79	0.40	230.80	0.001293	0.55	4.20	17.09	0.28
T2	3842.41	10 Year	DonPhaseII_Final_Proposed	1.84	230.26	230.91	0.52	230.92	0.000849	0.54	6.39	18.00	0.24
T2	3842.41	2 Year	DonPhaseII_Final_Baseline	0.56	230.26	230.57	0.18	230.60	0.006476	0.73	1.01	10.96	0.55
T2	3842.41	5 Year	DonPhaseII_Final_Proposed	1.29	230.26	230.79	0.40	230.80	0.001293	0.55	4.20	17.09	0.28
T2	3842.41	2 Year	DonPhaseII_Final_Proposed	0.56	230.26	230.57	0.18	230.60	0.006476	0.73	1.01	10.96	0.55
T2	3819.38	Regional	DonPhaseII_Final_Baseline	35.01	229.93	231.89	1.71	232.20	0.006995	3.21	22.14	32.76	0.78
T2	3819.38	Regional	DonPhaseII_Final_Proposed	35.01	229.93	231.89	1.71	232.20	0.006995	3.21	22.14	32.76	0.78
T2	3819.38	350 Year	DonPhaseII_Final_Baseline	8.74	229.93	231.78	1.59	231.81	0.000664	0.94	18.47	30.87	0.24
T2	3819.38	350 Year	DonPhaseII_Final_Proposed	8.74	229.93	231.78	1.59	231.81	0.000664	0.94	18.47	30.87	0.24
T2	3819.38	100 Year	DonPhaseII_Final_Baseline	3.49	229.93	231.14	0.96	231.19	0.001486	1.00	4.28	9.66	0.33
T2	3819.38	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	229.93	231.29	1.11	231.34	0.001370	1.06	6.16	17.09	0.32
T2	3819.38	50 Year	DonPhaseII_Final_Baseline	3.00	229.93	231.07	0.88	231.11	0.001493	0.95	3.63	7.54	0.32
T2	3819.38	100 Year	DonPhaseII_Final_Proposed	3.49	229.93	231.14	0.96	231.19	0.001486	1.00	4.28	9.66	0.33
T2	3819.38	25 Year	DonPhaseII_Final_Baseline	2.44	229.93	230.98	0.79	231.01	0.001467	0.88	3.07	5.15	0.32
T2	3819.38	50 Year	DonPhaseII_Final_Proposed	3.00	229.93	231.07	0.88	231.11	0.001493	0.95	3.63	7.54	0.32
T2	3819.38	10 Year	DonPhaseII_Final_Baseline	1.84	229.93	230.86	0.68	230.89	0.001410	0.78	2.53	4.70	0.30
T2	3819.38	25 Year	DonPhaseII_Final_Proposed	2.44	229.93	230.98	0.79	231.01	0.001467	0.88	3.07	5.15	0.32
T2	3819.38	5 Year	DonPhaseII_Final_Baseline	1.29	229.93	230.74	0.56	230.77	0.001348	0.67	2.00	4.19	0.29
T2	3819.38	10 Year	DonPhaseII_Final_Proposed	1.84	229.93	230.86	0.68	230.89	0.001410	0.78	2.53	4.70	0.30
T2	3819.38	2 Year	DonPhaseII_Final_Baseline	0.56	229.93	230.53	0.36	230.54	0.001185	0.47	1.19	3.33	0.25
T2	3819.38	5 Year	DonPhaseII_Final_Proposed	1.29	229.93	230.74	0.56	230.77	0.001348	0.67	2.00	4.19	0.29
T2	3819.38	2 Year	DonPhaseII_Final_Proposed	0.56	229.93	230.53	0.36	230.54	0.001185	0.47	1.19	3.33	0.25
T2	3800	Regional	DonPhaseII_Final_Baseline	35.01	230.01	232.00	1.78	232.03	0.000860	1.14	51.57	42.03	0.27
T2	3800	Regional	DonPhaseII_Final_Proposed	35.01	230.01	232.00	1.78	232.03	0.000860	1.14	51.57	42.03	0.27
T2	3800	350 Year	DonPhaseII_Final_Baseline	8.74	230.01	231.31	1.10	231.73	0.013074	3.22	4.16	35.03	0.98
T2	3800	350 Year	DonPhaseII_Final_Proposed	8.74	230.01	231.31	1.10	231.73	0.013074	3.22	4.16	35.03	0.98
T2	3800	100 Year	DonPhaseII_Final_Baseline	3.49	230.01	230.83	0.61	231.10	0.017138	2.50	1.87	29.99	1.02
T2	3800	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	230.01	230.94	0.72	231.25	0.015967	2.70	2.33	31.35	1.01
T2	3800	50 Year	DonPhaseII_Final_Baseline	3.00	230.01	230.77	0.55	231.02	0.018138	2.40	1.64	26.80	1.03
T2	3800	100 Year	DonPhaseII_Final_Proposed	3.49	230.01	230.83	0.61	231.10	0.017138	2.50	1.87	29.99	1.02
T2	3800	25 Year	DonPhaseII_Final_Baseline	2.44	230.01	230.70	0.48	230.93	0.018769	2.24	1.41	23.36	1.03
T2	3800	50 Year	DonPhaseII_Final_Proposed	3.00	230.01	230.77	0.55	231.02	0.018138	2.40	1.64	26.80	1.03
T2	3800	10 Year	DonPhaseII_Final_Baseline	1.84	230.01	230.62	0.43	230.81	0.018138	2.05	1.14	16.26	0.99
T2	3800	25 Year	DonPhaseII_Final_Proposed	2.44	230.01	230.70	0.48	230.93	0.018769	2.24	1.41	23.36	1.03
T2	3800	5 Year	DonPhaseII_Final_Baseline	1.29	230.01	230.53	0.37	230.69	0.018353	1.86	0.86	13.04	0.98
T2	3800	10 Year	DonPhaseII_Final_Proposed	1.84	230.01	230.62	0.43	230.81	0.018138	2.05	1.14	16.26	0.99
T2	3800	2 Year	DonPhaseII_Final_Baseline	0.56	230.01	230.36	0.25	230.47	0.019960	1.50	0.43	7.34	0.97
T2	3800	5 Year	DonPhaseII_Final_Proposed	1.29	230.01	230.53	0.37	230.69	0.018353	1.86	0.86	13.04	0.98
T2	3800	2 Year	DonPhaseII_Final_Proposed	0.56	230.01	230.36	0.25	230.47	0.019960	1.50	0.43	7.34	0.97
T2	3773.65	Regional	DonPhaseII_Final_Baseline	35.01	229.70	231.06	1.26	231.36	0.008634	3.07	21.06	32.50	0.87
T2	3773.65	Regional	DonPhaseII_Final_Proposed	35.01	229.70	231.06	1.26	231.36	0.008634	3.07	21.06	32.50	0.87
T2	3773.65	350 Year	DonPhaseII_Final_Baseline	8.74	229.70	230.45	0.65	230.68	0.011237	2.26	5.26	14.97	0.89
T2	3773.65	350 Year	DonPhaseII_Final_Proposed	8.74	229.70	230.45	0.65	230.68	0.011237	2.26	5.26	14.97	0.89
T2	3773.65	100 Year	DonPhaseII_Final_Baseline	3.49	229.70	230.17	0.36	230.33	0.015455	1.80	2.15	8.34	0.95
T2	3773.65	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	229.70	230.23	0.43	230.41	0.013941	1.92	2.76	9.38	0.93
T2	3773.65	50 Year	DonPhaseII_Final_Baseline	3.00	229.70	230.13	0.32	230.28	0.016966	1.75	1.85	7.14	0.98
T2	3773.65	100 Year	DonPhaseII_Final_Proposed	3.49	229.70	230.17	0.36	230.33	0.015455	1.80	2.15	8.34	0.95
T2	3773.65	25 Year	DonPhaseII_Final_Baseline	2.44	229.70	230.08	0.28	230.22	0.018097	1.64	1.56	6.45	0.99
T2	3773.65	50 Year	DonPhaseII_Final_Proposed	3.00	229.70	230.13	0.32	230.28	0.016966	1.75	1.85	7.14	0.98
T2	3773.65	10 Year	DonPhaseII_Final_Baseline	1.84	229.70	230.03	0.23	230.15	0.019740	1.51	1.26	5.98	1.00
T2	3773.65	25 Year	DonPhaseII_Final_Proposed	2.44	229.70	230.08	0.28	230.22	0.018097	1.64	1.56	6.45	0.99
T2	3773.65	5 Year	DonPhaseII_Final_Baseline	1.29	229.70	229.99	0.19	230.08	0.019390	1.30	1.00	5.59	0.96
T2	3773.65	10 Year	DonPhaseII_Final_Proposed	1.84	229.70	230.03	0.23	230.15	0.019740	1.51	1.26	5.98	1.00
T2	3773.65	2 Year	DonPhaseII_Final_Baseline	0.56	229.70	229.95	0.15	229.97	0.008754	0.75	0.76	5.24	0.62
T2	3773.65	5 Year	DonPhaseII_Final_Proposed	1.29	229.70	229.99	0.19	230.08	0.019390	1.30	1.00	5.59	0.96

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	3773.65	2 Year	DonPhaseII_Final_Proposed	0.56	229.70	229.95	0.15	229.97	0.008754	0.75	0.76	5.24	0.62
T2	3745.49	Regional	DonPhaseII_Final_Baseline	35.01	229.24	230.35	1.01	230.72	0.022837	4.26	18.62	26.50	1.36
T2	3745.49	Regional	DonPhaseII_Final_Proposed	35.01	229.24	230.35	1.01	230.72	0.022837	4.26	18.62	26.50	1.36
T2	3745.49	350 Year	DonPhaseII_Final_Baseline	8.74	229.24	229.92	0.58	230.07	0.016483	2.50	8.16	23.24	1.05
T2	3745.49	350 Year	DonPhaseII_Final_Proposed	8.74	229.24	229.92	0.58	230.07	0.016483	2.50	8.16	23.24	1.05
T2	3745.49	100 Year	DonPhaseII_Final_Baseline	3.49	229.24	229.77	0.42	229.86	0.012305	1.75	4.66	22.24	0.86
T2	3745.49	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	229.24	229.80	0.46	229.91	0.013458	1.94	5.49	22.48	0.91
T2	3745.49	50 Year	DonPhaseII_Final_Baseline	3.00	229.24	229.75	0.40	229.83	0.011664	1.66	4.23	22.12	0.83
T2	3745.49	100 Year	DonPhaseII_Final_Proposed	3.49	229.24	229.77	0.42	229.86	0.012305	1.75	4.66	22.24	0.86
T2	3745.49	25 Year	DonPhaseII_Final_Baseline	2.44	229.24	229.72	0.38	229.80	0.010892	1.53	3.69	21.93	0.80
T2	3745.49	50 Year	DonPhaseII_Final_Proposed	3.00	229.24	229.75	0.40	229.83	0.011664	1.66	4.23	22.12	0.83
T2	3745.49	10 Year	DonPhaseII_Final_Baseline	1.84	229.24	229.69	0.35	229.76	0.009748	1.37	3.04	21.64	0.74
T2	3745.49	25 Year	DonPhaseII_Final_Proposed	2.44	229.24	229.72	0.38	229.80	0.010892	1.53	3.69	21.93	0.80
T2	3745.49	5 Year	DonPhaseII_Final_Baseline	1.29	229.24	229.66	0.31	229.71	0.008814	1.22	2.28	21.28	0.69
T2	3745.49	10 Year	DonPhaseII_Final_Proposed	1.84	229.24	229.69	0.35	229.76	0.009748	1.37	3.04	21.64	0.74
T2	3745.49	2 Year	DonPhaseII_Final_Baseline	0.56	229.24	229.51	0.17	229.60	0.022138	1.29	0.44	2.83	1.00
T2	3745.49	5 Year	DonPhaseII_Final_Proposed	1.29	229.24	229.66	0.31	229.71	0.008814	1.22	2.28	21.28	0.69
T2	3745.49	2 Year	DonPhaseII_Final_Proposed	0.56	229.24	229.51	0.17	229.60	0.022138	1.29	0.44	2.83	1.00
T2	3700.29	Regional	DonPhaseII_Final_Baseline	35.01	227.95	230.00	1.85	230.06	0.001681	1.74	47.57	50.69	0.41
T2	3700.29	Regional	DonPhaseII_Final_Proposed	35.01	227.95	230.00	1.85	230.06	0.001681	1.74	47.57	50.69	0.41
T2	3700.29	350 Year	DonPhaseII_Final_Baseline	8.74	227.95	229.27	1.13	229.34	0.001995	1.36	13.63	37.96	0.41
T2	3700.29	350 Year	DonPhaseII_Final_Proposed	8.74	227.95	229.27	1.13	229.34	0.001995	1.36	13.63	37.96	0.41
T2	3700.29	100 Year	DonPhaseII_Final_Baseline	3.49	227.95	228.89	0.75	228.93	0.001823	0.99	5.34	11.41	0.36
T2	3700.29	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	227.95	229.00	0.86	229.05	0.001787	1.07	6.74	15.09	0.37
T2	3700.29	50 Year	DonPhaseII_Final_Baseline	3.00	227.95	228.83	0.68	228.87	0.001872	0.94	4.67	10.79	0.36
T2	3700.29	100 Year	DonPhaseII_Final_Proposed	3.49	227.95	228.89	0.75	228.93	0.001823	0.99	5.34	11.41	0.36
T2	3700.29	25 Year	DonPhaseII_Final_Baseline	2.44	227.95	228.75	0.61	228.79	0.001928	0.89	3.89	9.94	0.36
T2	3700.29	50 Year	DonPhaseII_Final_Proposed	3.00	227.95	228.83	0.68	228.87	0.001872	0.94	4.67	10.79	0.36
T2	3700.29	10 Year	DonPhaseII_Final_Baseline	1.84	227.95	228.66	0.52	228.69	0.002050	0.82	3.01	8.90	0.36
T2	3700.29	25 Year	DonPhaseII_Final_Proposed	2.44	227.95	228.75	0.61	228.79	0.001928	0.89	3.89	9.94	0.36
T2	3700.29	5 Year	DonPhaseII_Final_Baseline	1.29	227.95	228.56	0.42	228.59	0.002222	0.74	2.18	7.88	0.37
T2	3700.29	10 Year	DonPhaseII_Final_Proposed	1.84	227.95	228.66	0.52	228.69	0.002050	0.82	3.01	8.90	0.36
T2	3700.29	2 Year	DonPhaseII_Final_Baseline	0.56	227.95	228.40	0.25	228.41	0.002536	0.56	1.06	5.66	0.36
T2	3700.29	5 Year	DonPhaseII_Final_Proposed	1.29	227.95	228.56	0.42	228.59	0.002222	0.74	2.18	7.88	0.37
T2	3700.29	2 Year	DonPhaseII_Final_Proposed	0.56	227.95	228.40	0.25	228.41	0.002536	0.56	1.06	5.66	0.36
T2	3685.37	Regional	DonPhaseII_Final_Baseline	35.01	227.96	229.99	1.90	230.03	0.001465	1.64	53.23	62.23	0.38
T2	3685.37	Regional	DonPhaseII_Final_Proposed	35.01	227.96	229.99	1.90	230.03	0.001465	1.64	53.23	62.23	0.38
T2	3685.37	350 Year	DonPhaseII_Final_Baseline	8.74	227.96	229.14	1.05	229.29	0.004940	2.04	10.27	38.49	0.63
T2	3685.37	350 Year	DonPhaseII_Final_Proposed	8.74	227.96	229.14	1.05	229.29	0.004940	2.04	10.27	38.49	0.63
T2	3685.37	100 Year	DonPhaseII_Final_Baseline	3.49	227.96	228.64	0.54	228.85	0.013299	2.15	2.07	5.89	0.93
T2	3685.37	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	227.96	228.74	0.65	228.98	0.011525	2.26	2.84	9.34	0.89
T2	3685.37	50 Year	DonPhaseII_Final_Baseline	3.00	227.96	228.59	0.50	228.79	0.013754	2.06	1.80	5.45	0.93
T2	3685.37	100 Year	DonPhaseII_Final_Proposed	3.49	227.96	228.64	0.54	228.85	0.013299	2.15	2.07	5.89	0.93
T2	3685.37	25 Year	DonPhaseII_Final_Baseline	2.44	227.96	228.52	0.43	228.71	0.015213	1.97	1.46	4.83	0.96
T2	3685.37	50 Year	DonPhaseII_Final_Proposed	3.00	227.96	228.59	0.50	228.79	0.013754	2.06	1.80	5.45	0.93
T2	3685.37	10 Year	DonPhaseII_Final_Baseline	1.84	227.96	228.44	0.35	228.61	0.017905	1.85	1.10	3.82	1.00
T2	3685.37	25 Year	DonPhaseII_Final_Proposed	2.44	227.96	228.52	0.43	228.71	0.015213	1.97	1.46	4.83	0.96
T2	3685.37	5 Year	DonPhaseII_Final_Baseline	1.29	227.96	228.37	0.28	228.50	0.018314	1.64	0.85	3.45	0.98
T2	3685.37	10 Year	DonPhaseII_Final_Proposed	1.84	227.96	228.44	0.35	228.61	0.017905	1.85	1.10	3.82	1.00
T2	3685.37	2 Year	DonPhaseII_Final_Baseline	0.56	227.96	228.24	0.18	228.32	0.020966	1.30	0.44	2.66	0.98
T2	3685.37	5 Year	DonPhaseII_Final_Proposed	1.29	227.96	228.37	0.28	228.50	0.018314	1.64	0.85	3.45	0.98
T2	3685.37	2 Year	DonPhaseII_Final_Proposed	0.56	227.96	228.24	0.18	228.32	0.020966	1.30	0.44	2.66	0.98
T2	3600	Regional	DonPhaseII_Final_Baseline	35.01	227.23	229.95	2.66	229.97	0.000377	1.06	84.48	57.85	0.21
T2	3600	Regional	DonPhaseII_Final_Proposed	35.01	227.23	229.95	2.66	229.97	0.000377	1.06	84.48	57.85	0.21
T2	3600	350 Year	DonPhaseII_Final_Baseline	8.74	227.23	228.18	0.89	228.40	0.007052	2.20	5.83	15.46	0.75
T2	3600	350 Year	DonPhaseII_Final_Proposed	8.74	227.23	228.18	0.89	228.40	0.007052	2.20	5.83	15.46	0.75
T2	3600	100 Year	DonPhaseII_Final_Baseline	3.49	227.23	227.85	0.55	227.96	0.006413	1.52	2.86	7.23	0.66
T2	3600	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	227.23	227.93	0.64	228.06	0.006351	1.67	3.51	7.69	0.67
T2	3600	50 Year	DonPhaseII_Final_Baseline	3.00	227.23	227.83	0.53	227.91	0.005392	1.36	2.72	7.12	0.60
T2	3600	100 Year	DonPhaseII_Final_Proposed	3.49	227.23	227.85	0.55	227.96	0.006413	1.52	2.86	7.23	0.66
T2	3600	25 Year	DonPhaseII_Final_Baseline	2.44	227.23	227.78	0.49	227.86	0.004797	1.22	2.43	6.83	0.56
T2	3600	50 Year	DonPhaseII_Final_Proposed	3.00	227.23	227.83	0.53	227.91	0.005392	1.36	2.72	7.12	0.60
T2	3600	10 Year	DonPhaseII_Final_Baseline	1.84	227.23	227.71	0.41	227.77	0.004940	1.11	1.94	6.29	0.55
T2	3600	25 Year	DonPhaseII_Final_Proposed	2.44	227.23	227.78	0.49	227.86	0.004797	1.22	2.43	6.83	0.56
T2	3600	5 Year	DonPhaseII_Final_Baseline	1.29	227.23	227.63	0.34	227.68	0.005008	0.97	1.48	5.68	0.54
T2	3600	10 Year	DonPhaseII_Final_Proposed	1.84	227.23	227.71	0.41	227.77	0.004940	1.11	1.94	6.29	0.55
T2	3600	2 Year	DonPhaseII_Final_Baseline	0.56	227.23	227.51	0.21	227.53	0.004715	0.69	0.84	4.49	0.48
T2	3600	5 Year	DonPhaseII_Final_Proposed	1.29	227.23	227.63	0.34	227.68	0.005008	0.97	1.48	5.68	0.54
T2	3600	2 Year	DonPhaseII_Final_Proposed	0.56	227.23	227.51	0.21	227.53	0.004715	0.69	0.84	4.49	0.48
T2	3500.1	Regional	DonPhaseII_Final_Baseline	35.01	226.61	229.95	3.31	229.96	0.000072	0.54	174.31	75.55	0.09
T2	3500.1	Regional	DonPhaseII_Final_Proposed	35.01	226.61	229.95	3.31	229.96	0.000072	0.54	174.31	75.55	0.09
T2	3500.1	350 Year	DonPhaseII_Final_Baseline	8.74	226.61	227.48	0.84	227.66	0.007989	2.27	9.97	38.85	0.79
T2	3500.1	350 Year	DonPhaseII_Final_Proposed	8.74	226.61	227.48	0.84	227.66	0.007989	2.27	9.97	38.85	0.79
T2	3500.1	100 Year	DonPhaseII_Final_Baseline	3.49	226.61	227.24	0.60	227.34	0.006022	1.57	3.54	10.92	0.65
T2	3500.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	226.61	227.34	0.70	227.46	0.005784	1.71	5.41	27.81	0.65
T2	3500.1	50 Year	DonPhaseII_Final_Baseline	3.00	226.61	227.16	0.51	227.27	0.008009	1.64	2.76	8.13	0.73
T2	3500.1	100 Year	DonPhaseII_Final_Proposed	3.49	226.61	227.24	0.60	227.34	0.006022	1.57	3.54	10.92	0.65
T2	3500.1	25 Year	DonPhaseII_Final_Baseline	2.44	226.61	227.08	0.44	227.20	0.009743	1.63	2.17	7.59	0.78
T2	3500.1	50 Year	DonPhaseII_Final_Proposed	3.00	226.61	227.16	0.51	227.27	0.008009	1.64	2.76	8.13	0.73
T2	3500.1	10 Year	DonPhaseII_Final_Baseline	1.84	226.61	227.03	0.39	227.12	0.008946	1.43	1.79	7.23	0.74
T2	3500.1	25 Year	DonPhaseII_Final_Proposed	2.44	226.61	227.08	0.44	227.20	0.009743	1.63	2.17	7.59	0.78
T2	3500.1	5 Year	DonPhaseII_Final_Baseline	1.29	226.61	226.96	0.32	227.04	0.008694	1.25	1.33	6.36	0.70
T2	3500.1	10 Year	DonPhaseII_Final_Proposed	1.84	226.61	227.03	0.39	227.12	0.008946	1.43	1.79	7.23	0.74
T2	3500.1	2 Year	DonPhaseII_Final_Baseline	0.56	226.61	226.84	0.20	226.88	0.009587	0.94	0.68	4.44	0.68
T2	3500.1	5 Year	DonPhaseII_Final_Proposed	1.29	226.61	226.96	0.32	227.04	0.008694	1.25	1.33	6.36	0.70
T2	3500.1	2 Year	DonPhaseII_Final_Proposed	0.56	226.61	226.84	0.20	226.88	0.009587	0.94	0.68	4.44	0.68
T2	3398.23	Regional	DonPhaseII_Final_Baseline	35.01	225.81	229.95	4.12	229.95	0.000023	0.35	269.34	94.00	0.06
T2	3398.23	Regional	DonPhaseII_Final_Proposed	35.01	225.81	229.95	4.12	229.95	0.000023	0.35	269.34	94.00	0.06
T2	3398.23	350 Year	DonPhaseII_Final_Baseline	8.74	225.81	226.92	1.09	227.02	0.003274	1.73	13.85	48.80	0.53
T2	3398.23	350 Year	DonPhaseII_Final_Proposed	8.74	225.81	226.92	1.09	227.02	0.003274	1.73	13.85	48.80	0.53
T2	3398.23	100 Year	DonPhaseII_Final_Baseline	3.49	225.81	226.33	0.49	226.51	0.013135	2.04	2.43	6.99	0.93

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	3398.23	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	225.81	226.39	0.55	226.62	0.014220	2.30	2.90	7.72	0.99
T2	3398.23	50 Year	DonPhaseII_Final_Baseline	3.00	225.81	226.34	0.51	226.47	0.008556	1.68	2.55	7.16	0.75
T2	3398.23	100 Year	DonPhaseII_Final_Proposed	3.49	225.81	226.33	0.49	226.51	0.013135	2.04	2.43	6.99	0.93
T2	3398.23	25 Year	DonPhaseII_Final_Baseline	2.44	225.81	226.32	0.49	226.41	0.006651	1.44	2.39	6.95	0.66
T2	3398.23	50 Year	DonPhaseII_Final_Proposed	3.00	225.81	226.34	0.51	226.47	0.008556	1.68	2.55	7.16	0.75
T2	3398.23	10 Year	DonPhaseII_Final_Baseline	1.84	225.81	226.24	0.40	226.32	0.007467	1.35	1.84	6.24	0.68
T2	3398.23	25 Year	DonPhaseII_Final_Proposed	2.44	225.81	226.32	0.49	226.41	0.006651	1.44	2.39	6.95	0.66
T2	3398.23	5 Year	DonPhaseII_Final_Baseline	1.29	225.81	226.16	0.33	226.23	0.007616	1.19	1.40	5.61	0.66
T2	3398.23	10 Year	DonPhaseII_Final_Proposed	1.84	225.81	226.24	0.40	226.32	0.007467	1.35	1.84	6.24	0.68
T2	3398.23	2 Year	DonPhaseII_Final_Baseline	0.56	225.81	226.05	0.21	226.08	0.006708	0.83	0.80	4.76	0.58
T2	3398.23	5 Year	DonPhaseII_Final_Proposed	1.29	225.81	226.16	0.33	226.23	0.007616	1.19	1.40	5.61	0.66
T2	3398.23	2 Year	DonPhaseII_Final_Proposed	0.56	225.81	226.05	0.21	226.08	0.006708	0.83	0.80	4.76	0.58
T2	3311.72	Regional	DonPhaseII_Final_Baseline	35.01	225.19	229.95	4.76	229.95	0.000013	0.29	344.71	113.96	0.04
T2	3311.72	Regional	DonPhaseII_Final_Proposed	35.01	225.19	229.95	4.76	229.95	0.000013	0.29	344.71	113.96	0.04
T2	3311.72	350 Year	DonPhaseII_Final_Baseline	8.74	225.19	226.97	1.77	226.97	0.000104	0.43	61.94	70.64	0.10
T2	3311.72	350 Year	DonPhaseII_Final_Proposed	8.74	225.19	226.97	1.77	226.97	0.000104	0.43	61.94	70.64	0.10
T2	3311.72	100 Year	DonPhaseII_Final_Baseline	3.49	225.19	225.75	0.55	225.82	0.005714	1.45	4.56	14.50	0.62
T2	3311.72	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	225.19	225.99	0.79	226.03	0.002348	1.18	10.14	35.34	0.43
T2	3311.72	50 Year	DonPhaseII_Final_Baseline	3.00	225.19	225.66	0.46	225.75	0.009089	1.62	3.26	13.24	0.76
T2	3311.72	100 Year	DonPhaseII_Final_Proposed	3.49	225.19	225.75	0.55	225.82	0.005714	1.45	4.56	14.50	0.62
T2	3311.72	25 Year	DonPhaseII_Final_Baseline	2.44	225.19	225.57	0.37	225.68	0.012901	1.69	2.31	9.60	0.88
T2	3311.72	50 Year	DonPhaseII_Final_Proposed	3.00	225.19	225.66	0.46	225.75	0.009089	1.62	3.26	13.24	0.76
T2	3311.72	10 Year	DonPhaseII_Final_Baseline	1.84	225.19	225.54	0.35	225.62	0.009952	1.40	2.06	8.39	0.76
T2	3311.72	25 Year	DonPhaseII_Final_Proposed	2.44	225.19	225.57	0.37	225.68	0.012901	1.69	2.31	9.60	0.88
T2	3311.72	5 Year	DonPhaseII_Final_Baseline	1.29	225.19	225.49	0.29	225.55	0.008957	1.20	1.64	7.92	0.70
T2	3311.72	10 Year	DonPhaseII_Final_Proposed	1.84	225.19	225.54	0.35	225.62	0.009952	1.40	2.06	8.39	0.76
T2	3311.72	2 Year	DonPhaseII_Final_Baseline	0.56	225.19	225.38	0.19	225.42	0.009478	0.91	0.85	6.64	0.67
T2	3311.72	5 Year	DonPhaseII_Final_Proposed	1.29	225.19	225.49	0.29	225.55	0.008957	1.20	1.64	7.92	0.70
T2	3311.72	2 Year	DonPhaseII_Final_Proposed	0.56	225.19	225.38	0.19	225.42	0.009478	0.91	0.85	6.64	0.67
T2	3282.44	Regional	DonPhaseII_Final_Baseline	35.01	224.63	229.95	5.22	229.95	0.000011	0.28	327.61	126.25	0.04
T2	3282.44	Regional	DonPhaseII_Final_Proposed	35.01	224.63	229.95	5.22	229.95	0.000011	0.28	327.61	126.25	0.04
T2	3282.44	350 Year	DonPhaseII_Final_Baseline	8.74	224.63	226.88	2.15	226.95	0.000823	1.34	9.99	62.60	0.29
T2	3282.44	350 Year	DonPhaseII_Final_Proposed	8.74	224.63	226.88	2.15	226.95	0.000823	1.34	9.99	62.60	0.29
T2	3282.44	100 Year	DonPhaseII_Final_Baseline	3.49	224.63	225.65	0.91	225.73	0.002906	1.43	3.71	9.85	0.48
T2	3282.44	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	224.63	225.90	1.16	225.97	0.002004	1.39	4.98	12.34	0.41
T2	3282.44	50 Year	DonPhaseII_Final_Baseline	3.00	224.63	225.53	0.80	225.62	0.003596	1.45	3.12	8.82	0.52
T2	3282.44	100 Year	DonPhaseII_Final_Proposed	3.49	224.63	225.65	0.91	225.73	0.002906	1.43	3.71	9.85	0.48
T2	3282.44	25 Year	DonPhaseII_Final_Baseline	2.44	224.63	225.39	0.65	225.49	0.005093	1.51	2.39	7.30	0.60
T2	3282.44	50 Year	DonPhaseII_Final_Proposed	3.00	224.63	225.53	0.80	225.62	0.003596	1.45	3.12	8.82	0.52
T2	3282.44	10 Year	DonPhaseII_Final_Baseline	1.84	224.63	225.20	0.46	225.34	0.010971	1.76	1.45	4.94	0.83
T2	3282.44	25 Year	DonPhaseII_Final_Proposed	2.44	224.63	225.39	0.65	225.49	0.005093	1.51	2.39	7.30	0.60
T2	3282.44	5 Year	DonPhaseII_Final_Baseline	1.29	224.63	225.09	0.35	225.23	0.015089	1.72	0.95	4.08	0.93
T2	3282.44	10 Year	DonPhaseII_Final_Proposed	1.84	224.63	225.20	0.46	225.34	0.010971	1.76	1.45	4.94	0.83
T2	3282.44	2 Year	DonPhaseII_Final_Baseline	0.56	224.63	224.94	0.20	225.03	0.020008	1.37	0.44	2.78	0.97
T2	3282.44	5 Year	DonPhaseII_Final_Proposed	1.29	224.63	225.09	0.35	225.23	0.015089	1.72	0.95	4.08	0.93
T2	3282.44	2 Year	DonPhaseII_Final_Proposed	0.56	224.63	224.94	0.20	225.03	0.020008	1.37	0.44	2.78	0.97
T2	3257.89			Culvert									
T2	3235.47	Regional	DonPhaseII_Final_Baseline	35.01	224.67	226.71	2.00	227.60	0.010393	4.62	9.91	55.98	1.04
T2	3235.47	Regional	DonPhaseII_Final_Proposed	35.01	224.67	226.71	2.00	227.60	0.010393	4.62	9.91	55.98	1.04
T2	3235.47	350 Year	DonPhaseII_Final_Baseline	8.74	224.67	225.52	0.81	225.89	0.014095	2.95	3.86	37.27	1.04
T2	3235.47	350 Year	DonPhaseII_Final_Proposed	8.74	224.67	225.52	0.81	225.89	0.014095	2.95	3.86	37.27	1.04
T2	3235.47	100 Year	DonPhaseII_Final_Baseline	3.49	224.67	225.18	0.46	225.38	0.015776	2.15	2.09	7.08	1.01
T2	3235.47	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	224.67	225.25	0.54	225.50	0.015456	2.36	2.48	7.67	1.02
T2	3235.47	50 Year	DonPhaseII_Final_Baseline	3.00	224.67	225.14	0.43	225.32	0.015942	2.04	1.89	6.81	1.00
T2	3235.47	100 Year	DonPhaseII_Final_Proposed	3.49	224.67	225.18	0.46	225.38	0.015776	2.15	2.09	7.08	1.01
T2	3235.47	25 Year	DonPhaseII_Final_Baseline	2.44	224.67	225.09	0.38	225.25	0.016125	1.89	1.64	6.49	0.98
T2	3235.47	50 Year	DonPhaseII_Final_Proposed	3.00	224.67	225.14	0.43	225.32	0.015942	2.04	1.89	6.81	1.00
T2	3235.47	10 Year	DonPhaseII_Final_Baseline	1.84	224.67	225.03	0.32	225.17	0.016720	1.72	1.35	6.08	0.97
T2	3235.47	25 Year	DonPhaseII_Final_Proposed	2.44	224.67	225.09	0.38	225.25	0.016125	1.89	1.64	6.49	0.98
T2	3235.47	5 Year	DonPhaseII_Final_Baseline	1.29	224.67	224.97	0.26	225.08	0.017105	1.52	1.05	5.58	0.95
T2	3235.47	10 Year	DonPhaseII_Final_Proposed	1.84	224.67	225.03	0.32	225.17	0.016720	1.72	1.35	6.08	0.97
T2	3235.47	2 Year	DonPhaseII_Final_Baseline	0.56	224.67	224.87	0.15	224.94	0.020937	1.19	0.53	4.45	0.96
T2	3235.47	5 Year	DonPhaseII_Final_Proposed	1.29	224.67	224.97	0.26	225.08	0.017105	1.52	1.05	5.58	0.95
T2	3235.47	2 Year	DonPhaseII_Final_Proposed	0.56	224.67	224.87	0.15	224.94	0.020937	1.19	0.53	4.45	0.96
T2	3224.34	Regional	DonPhaseII_Final_Baseline	37.22	224.36	227.14	2.72	227.16	0.000310	0.98	102.50	69.17	0.19
T2	3224.34	Regional	DonPhaseII_Final_Proposed	37.22	224.36	227.14	2.72	227.16	0.000310	0.98	102.50	69.17	0.19
T2	3224.34	350 Year	DonPhaseII_Final_Baseline	9.73	224.36	225.25	0.84	225.39	0.005962	1.95	8.77	19.08	0.68
T2	3224.34	350 Year	DonPhaseII_Final_Proposed	9.73	224.36	225.25	0.84	225.39	0.005962	1.95	8.77	19.08	0.68
T2	3224.34	100 Year	DonPhaseII_Final_Baseline	3.58	224.36	224.94	0.52	225.01	0.005171	1.33	4.33	12.99	0.59
T2	3224.34	1.3*100 Year	DonPhaseII_Final_Proposed	4.65	224.36	225.01	0.59	225.09	0.005248	1.46	5.27	13.34	0.60
T2	3224.34	50 Year	DonPhaseII_Final_Baseline	3.04	224.36	224.90	0.49	224.97	0.004994	1.24	3.86	12.81	0.57
T2	3224.34	100 Year	DonPhaseII_Final_Proposed	3.58	224.36	224.94	0.52	225.01	0.005171	1.33	4.33	12.99	0.59
T2	3224.34	25 Year	DonPhaseII_Final_Baseline	2.45	224.36	224.86	0.44	224.92	0.004755	1.14	3.30	12.59	0.55
T2	3224.34	50 Year	DonPhaseII_Final_Proposed	3.04	224.36	224.90	0.49	224.97	0.004994	1.24	3.86	12.81	0.57
T2	3224.34	10 Year	DonPhaseII_Final_Baseline	1.97	224.36	224.82	0.40	224.87	0.004492	1.04	2.81	12.39	0.52
T2	3224.34	25 Year	DonPhaseII_Final_Proposed	2.45	224.36	224.86	0.44	224.92	0.004755	1.14	3.30	12.59	0.55
T2	3224.34	5 Year	DonPhaseII_Final_Baseline	1.53	224.36	224.77	0.35	224.81	0.004426	0.94	2.23	10.53	0.51
T2	3224.34	10 Year	DonPhaseII_Final_Proposed	1.97	224.36	224.82	0.40	224.87	0.004492	1.04	2.81	12.39	0.52
T2	3224.34	2 Year	DonPhaseII_Final_Baseline	0.55	224.36	224.63	0.21	224.64	0.003885	0.62	1.07	6.64	0.44
T2	3224.34	5 Year	DonPhaseII_Final_Proposed	1.53	224.36	224.77	0.35	224.81	0.004426	0.94	2.23	10.53	0.51
T2	3224.34	2 Year	DonPhaseII_Final_Proposed	0.55	224.36	224.63	0.21	224.64	0.003885	0.62	1.07	6.64	0.44
T2	3181.35	Regional	DonPhaseII_Final_Baseline	37.22	224.05	227.14	2.99	227.15	0.000203	0.53	127.43	68.60	0.10
T2	3181.35	Regional	DonPhaseII_Final_Proposed	37.22	224.05	227.14	2.99	227.15	0.000203	0.53	127.43	68.60	0.10
T2	3181.35	350 Year	DonPhaseII_Final_Baseline	9.73	224.05	225.05	0.90	225.11	0.006769	1.37	11.56	25.19	0.46
T2	3181.35	350 Year	DonPhaseII_Final_Proposed	9.73	224.05	225.05	0.90	225.11	0.006769	1.37	11.56	25.19	0.46
T2	3181.35	100 Year	DonPhaseII_Final_Baseline	3.58	224.05	224.62	0.47	224.69	0.013342	1.25	3.65	10.76	0.58
T2	3181.35	1.3*100 Year	DonPhaseII_Final_Proposed	4.65	224.05	224.71	0.56	224.78	0.011475	1.31	4.70	12.16	0.56
T2	3181.35	50 Year	DonPhaseII_Final_Baseline	3.04	224.05	224.57	0.42	224.63	0.015208	1.23	3.09	10.34	0.61
T2	3181.35	100 Year	DonPhaseII_Final_Proposed	3.58	224.05	224.62	0.47	224.69	0.013342	1.25	3.65	10.76	0.58
T2	3181.35	25 Year	DonPhaseII_Final_Baseline	2.45	224.05	224.51	0.36	224.57	0.017299	1.20	2.53	9.87	0.63
T2	3181.35	50 Year	DonPhaseII_Final_Proposed	3.04	224.05	224.57	0.42	224.63	0.015208	1.23	3.09	10.34	0.61

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	3181.35	10 Year	DonPhaseII_Final_Baseline	1.97	224.05	224.46	0.32	224.52	0.019824	1.17	2.05	9.45	0.66
T2	3181.35	25 Year	DonPhaseII_Final_Proposed	2.45	224.05	224.51	0.36	224.57	0.017299	1.20	2.53	9.87	0.63
T2	3181.35	5 Year	DonPhaseII_Final_Baseline	1.53	224.05	224.43	0.29	224.48	0.017358	1.04	1.75	9.00	0.62
T2	3181.35	10 Year	DonPhaseII_Final_Proposed	1.97	224.05	224.46	0.32	224.52	0.019824	1.17	2.05	9.45	0.66
T2	3181.35	2 Year	DonPhaseII_Final_Baseline	0.55	224.05	224.28	0.16	224.31	0.022789	0.84	0.66	4.64	0.68
T2	3181.35	5 Year	DonPhaseII_Final_Proposed	1.53	224.05	224.43	0.29	224.48	0.017358	1.04	1.75	9.00	0.62
T2	3181.35	2 Year	DonPhaseII_Final_Proposed	0.55	224.05	224.28	0.16	224.31	0.022789	0.84	0.66	4.64	0.68
T2	3136.25	Regional	DonPhaseII_Final_Baseline	37.22	223.44	227.13	3.64	227.14	0.000064	0.54	222.33	118.34	0.09
T2	3136.25	Regional	DonPhaseII_Final_Proposed	37.22	223.44	227.13	3.64	227.14	0.000064	0.54	222.33	118.34	0.09
T2	3136.25	350 Year	DonPhaseII_Final_Baseline	9.73	223.44	224.54	1.04	224.78	0.007200	2.48	7.86	20.37	0.77
T2	3136.25	350 Year	DonPhaseII_Final_Proposed	9.73	223.44	224.54	1.04	224.78	0.007200	2.48	7.86	20.37	0.77
T2	3136.25	100 Year	DonPhaseII_Final_Baseline	3.58	223.44	224.11	0.62	224.25	0.007242	1.75	2.82	6.76	0.71
T2	3136.25	1.3*100 Year	DonPhaseII_Final_Proposed	4.65	223.44	224.20	0.70	224.36	0.007519	1.94	3.43	7.35	0.74
T2	3136.25	50 Year	DonPhaseII_Final_Baseline	3.04	223.44	224.07	0.57	224.19	0.006951	1.63	2.52	6.44	0.69
T2	3136.25	100 Year	DonPhaseII_Final_Proposed	3.58	223.44	224.11	0.62	224.25	0.007242	1.75	2.82	6.76	0.71
T2	3136.25	25 Year	DonPhaseII_Final_Baseline	2.45	223.44	224.00	0.51	224.11	0.006881	1.50	2.13	6.02	0.67
T2	3136.25	50 Year	DonPhaseII_Final_Proposed	3.04	223.44	224.07	0.57	224.19	0.006951	1.63	2.52	6.44	0.69
T2	3136.25	10 Year	DonPhaseII_Final_Baseline	1.97	223.44	223.95	0.45	224.04	0.006724	1.37	1.81	5.63	0.65
T2	3136.25	25 Year	DonPhaseII_Final_Proposed	2.45	223.44	224.00	0.51	224.11	0.006881	1.50	2.13	6.02	0.67
T2	3136.25	5 Year	DonPhaseII_Final_Baseline	1.53	223.44	223.86	0.37	223.95	0.008385	1.34	1.37	5.02	0.70
T2	3136.25	10 Year	DonPhaseII_Final_Proposed	1.97	223.44	223.95	0.45	224.04	0.006724	1.37	1.81	5.63	0.65
T2	3136.25	2 Year	DonPhaseII_Final_Baseline	0.55	223.44	223.71	0.21	223.74	0.007804	0.89	0.66	3.81	0.62
T2	3136.25	5 Year	DonPhaseII_Final_Proposed	1.53	223.44	223.86	0.37	223.95	0.008385	1.34	1.37	5.02	0.70
T2	3136.25	2 Year	DonPhaseII_Final_Proposed	0.55	223.44	223.71	0.21	223.74	0.007804	0.89	0.66	3.81	0.62
T2	3100	Regional	DonPhaseII_Final_Baseline	40.90	223.16	227.14	3.92	227.14	0.000003	0.11	474.81	144.73	0.02
T2	3100	Regional	DonPhaseII_Final_Proposed	40.90	223.16	227.14	3.92	227.14	0.000003	0.11	474.81	144.73	0.02
T2	3100	350 Year	DonPhaseII_Final_Baseline	10.38	223.16	224.14	0.92	224.41	0.010428	2.74	7.20	73.34	0.92
T2	3100	350 Year	DonPhaseII_Final_Proposed	10.38	223.16	224.14	0.92	224.41	0.010428	2.74	7.20	73.34	0.92
T2	3100	100 Year	DonPhaseII_Final_Baseline	3.58	223.16	223.75	0.53	223.90	0.010452	1.90	2.91	61.54	0.84
T2	3100	1.3*100 Year	DonPhaseII_Final_Proposed	4.65	223.16	223.82	0.60	224.00	0.010590	2.09	3.57	63.20	0.86
T2	3100	50 Year	DonPhaseII_Final_Baseline	3.03	223.16	223.70	0.48	223.83	0.010951	1.82	2.50	60.51	0.84
T2	3100	100 Year	DonPhaseII_Final_Proposed	3.58	223.16	223.75	0.53	223.90	0.010452	1.90	2.91	61.54	0.84
T2	3100	25 Year	DonPhaseII_Final_Baseline	2.45	223.16	223.65	0.43	223.77	0.010543	1.66	2.14	59.56	0.81
T2	3100	50 Year	DonPhaseII_Final_Proposed	3.03	223.16	223.70	0.48	223.83	0.010951	1.82	2.50	60.51	0.84
T2	3100	10 Year	DonPhaseII_Final_Baseline	1.96	223.16	223.60	0.38	223.70	0.010628	1.54	1.79	58.59	0.80
T2	3100	25 Year	DonPhaseII_Final_Proposed	2.45	223.16	223.65	0.43	223.77	0.010543	1.66	2.14	59.56	0.81
T2	3100	5 Year	DonPhaseII_Final_Baseline	1.37	223.16	223.56	0.34	223.63	0.007854	1.23	1.53	57.84	0.67
T2	3100	10 Year	DonPhaseII_Final_Proposed	1.96	223.16	223.60	0.38	223.70	0.010628	1.54	1.79	58.59	0.80
T2	3100	2 Year	DonPhaseII_Final_Baseline	0.55	223.16	223.43	0.21	223.47	0.006817	0.84	0.80	55.34	0.58
T2	3100	5 Year	DonPhaseII_Final_Proposed	1.37	223.16	223.56	0.34	223.63	0.007854	1.23	1.53	57.84	0.67
T2	3100	2 Year	DonPhaseII_Final_Proposed	0.55	223.16	223.43	0.21	223.47	0.006817	0.84	0.80	55.34	0.58
T2	3000	Regional	DonPhaseII_Final_Baseline	28.96	222.13	227.14	4.87	227.14	0.000002	0.11	462.89	132.49	0.02
T2	3000	Regional	DonPhaseII_Final_Proposed	28.96	222.13	227.14	4.87	227.14	0.000002	0.11	462.89	132.49	0.02
T2	3000	350 Year	DonPhaseII_Final_Baseline	9.18	222.13	222.93	0.66	223.08	0.014734	2.31	8.62	48.23	0.91
T2	3000	350 Year	DonPhaseII_Final_Proposed	9.18	222.13	222.93	0.66	223.08	0.014734	2.31	8.62	48.23	0.91
T2	3000	100 Year	DonPhaseII_Final_Baseline	3.20	222.13	222.74	0.47	222.83	0.011180	1.60	4.03	41.19	0.75
T2	3000	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	222.13	222.78	0.51	222.88	0.012207	1.76	4.88	42.10	0.79
T2	3000	50 Year	DonPhaseII_Final_Baseline	2.78	222.13	222.72	0.45	222.80	0.009790	1.47	3.77	40.90	0.70
T2	3000	100 Year	DonPhaseII_Final_Proposed	3.20	222.13	222.74	0.47	222.83	0.011180	1.60	4.03	41.19	0.75
T2	3000	25 Year	DonPhaseII_Final_Baseline	2.30	222.13	222.69	0.42	222.77	0.009508	1.39	3.19	40.17	0.68
T2	3000	50 Year	DonPhaseII_Final_Proposed	2.78	222.13	222.72	0.45	222.80	0.009790	1.47	3.77	40.90	0.70
T2	3000	10 Year	DonPhaseII_Final_Baseline	1.76	222.13	222.65	0.40	222.73	0.008888	1.29	2.39	38.13	0.65
T2	3000	25 Year	DonPhaseII_Final_Proposed	2.30	222.13	222.69	0.42	222.77	0.009508	1.39	3.19	40.17	0.68
T2	3000	5 Year	DonPhaseII_Final_Baseline	1.27	222.13	222.58	0.33	222.66	0.012185	1.32	1.20	29.45	0.74
T2	3000	10 Year	DonPhaseII_Final_Proposed	1.76	222.13	222.65	0.40	222.73	0.008888	1.29	2.39	38.13	0.65
T2	3000	2 Year	DonPhaseII_Final_Baseline	0.67	222.13	222.45	0.22	222.52	0.012793	1.15	0.58	18.65	0.78
T2	3000	5 Year	DonPhaseII_Final_Proposed	1.27	222.13	222.58	0.33	222.66	0.012185	1.32	1.20	29.45	0.74
T2	3000	2 Year	DonPhaseII_Final_Proposed	0.67	222.13	222.45	0.22	222.52	0.012793	1.15	0.58	18.65	0.78
T2	2948.19	Regional	DonPhaseII_Final_Baseline	28.96	221.72	227.14	5.17	227.14	0.000000	0.06	754.08	180.14	0.01
T2	2948.19	Regional	DonPhaseII_Final_Proposed	28.96	221.72	227.14	5.17	227.14	0.000000	0.06	754.08	180.14	0.01
T2	2948.19	350 Year	DonPhaseII_Final_Baseline	9.18	221.72	222.62	0.66	222.65	0.001860	0.92	18.11	114.14	0.36
T2	2948.19	350 Year	DonPhaseII_Final_Proposed	9.18	221.72	222.62	0.66	222.65	0.001860	0.92	18.11	114.14	0.36
T2	2948.19	100 Year	DonPhaseII_Final_Baseline	3.20	221.72	222.34	0.38	222.38	0.004884	1.03	4.86	32.95	0.53
T2	2948.19	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.72	222.49	0.52	222.50	0.001319	0.66	11.01	104.69	0.29
T2	2948.19	50 Year	DonPhaseII_Final_Baseline	2.78	221.72	222.29	0.33	222.35	0.008886	1.26	3.29	28.18	0.70
T2	2948.19	100 Year	DonPhaseII_Final_Proposed	3.20	221.72	222.34	0.38	222.38	0.004884	1.03	4.86	32.95	0.53
T2	2948.19	25 Year	DonPhaseII_Final_Baseline	2.30	221.72	222.27	0.31	222.33	0.008474	1.19	2.81	26.51	0.68
T2	2948.19	50 Year	DonPhaseII_Final_Proposed	2.78	221.72	222.29	0.33	222.35	0.008886	1.26	3.29	28.18	0.70
T2	2948.19	10 Year	DonPhaseII_Final_Baseline	1.76	221.72	222.25	0.29	222.30	0.008106	1.10	2.20	22.18	0.66
T2	2948.19	25 Year	DonPhaseII_Final_Proposed	2.30	221.72	222.27	0.31	222.33	0.008474	1.19	2.81	26.51	0.68
T2	2948.19	5 Year	DonPhaseII_Final_Baseline	1.27	221.72	222.24	0.28	222.27	0.004963	0.84	2.03	21.87	0.51
T2	2948.19	10 Year	DonPhaseII_Final_Proposed	1.76	221.72	222.25	0.29	222.30	0.008106	1.10	2.20	22.18	0.66
T2	2948.19	2 Year	DonPhaseII_Final_Baseline	0.67	221.72	222.20	0.24	222.21	0.003131	0.61	1.22	11.55	0.40
T2	2948.19	5 Year	DonPhaseII_Final_Proposed	1.27	221.72	222.24	0.28	222.27	0.004963	0.84	2.03	21.87	0.51
T2	2948.19	2 Year	DonPhaseII_Final_Proposed	0.67	221.72	222.20	0.24	222.21	0.003131	0.61	1.22	11.55	0.40
T2	2876.57	Regional	DonPhaseII_Final_Baseline	28.96	221.34	227.14	5.54	227.14	0.000002	0.14	565.39	152.40	0.02
T2	2876.57	Regional	DonPhaseII_Final_Proposed	28.96	221.34	227.14	5.54	227.14	0.000002	0.14	565.39	152.40	0.02
T2	2876.57	350 Year	DonPhaseII_Final_Baseline	9.18	221.34	222.59	0.99	222.59	0.000504	0.63	40.41	72.35	0.20
T2	2876.57	350 Year	DonPhaseII_Final_Proposed	9.18	221.34	222.59	0.99	222.59	0.000504	0.63	40.41	72.35	0.20
T2	2876.57	100 Year	DonPhaseII_Final_Baseline	3.20	221.34	222.32	0.73	222.32	0.000328	0.41	22.03	62.97	0.15
T2	2876.57	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.34	222.47	0.88	222.47	0.000196	0.36	32.35	69.34	0.12
T2	2876.57	50 Year	DonPhaseII_Final_Baseline	2.78	221.34	222.23	0.64	222.24	0.000517	0.47	16.65	59.47	0.19
T2	2876.57	100 Year	DonPhaseII_Final_Proposed	3.20	221.34	222.32	0.73	222.32	0.000328	0.41	22.03	62.97	0.15
T2	2876.57	25 Year	DonPhaseII_Final_Baseline	2.30	221.34	222.13	0.54	222.14	0.000962	0.58	11.09	55.66	0.25
T2	2876.57	50 Year	DonPhaseII_Final_Proposed	2.78	221.34	222.23	0.64	222.24	0.000517	0.47	16.65	59.47	0.19
T2	2876.57	10 Year	DonPhaseII_Final_Baseline	1.76	221.34	222.02	0.43	222.04	0.001755	0.67	6.15	34.65	0.33
T2	2876.57	25 Year	DonPhaseII_Final_Proposed	2.30	221.34	222.13	0.54	222.14	0.000962	0.58	11.09	55.66	0.25
T2	2876.57	5 Year	DonPhaseII_Final_Baseline	1.27	221.34	221.91	0.32	221.95	0.004560	0.89	2.61	28.70	0.50
T2	2876.57	10 Year	DonPhaseII_Final_Proposed	1.76	221.34	222.02	0.43	222.04	0.001755	0.67	6.15	34.65	0.33
T2	2876.57	2 Year	DonPhaseII_Final_Baseline	0.67	221.34	221.76	0.19	221.81	0.012859	1.04	0.64	3.40	0.77
T2	2876.57	5 Year	DonPhaseII_Final_Proposed	1.27	221.34	221.91	0.32	221.95	0.004560	0.89	2.61	28.70	0.50
T2	2876.57	2 Year	DonPhaseII_Final_Proposed	0.67	221.34	221.76	0.19	221.81	0.012859	1.04	0.64	3.40	0.77

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	2862.59	Regional	DonPhaseII_Final_Baseline	42.34	221.25	227.14	5.79	227.14	0.000010	0.29	463.54	145.36	0.04
T2	2862.59	Regional	DonPhaseII_Final_Proposed	42.34	221.25	227.14	5.79	227.14	0.000010	0.29	463.54	145.36	0.04
T2	2862.59	350 Year	DonPhaseII_Final_Baseline	4.92	221.25	222.48	1.14	222.56	0.002320	1.49	6.49	18.64	0.44
T2	2862.59	350 Year	DonPhaseII_Final_Proposed	4.92	221.25	222.48	1.14	222.56	0.002320	1.49	6.49	18.64	0.44
T2	2862.59	100 Year	DonPhaseII_Final_Baseline	3.20	221.25	222.20	0.85	222.29	0.003513	1.50	3.69	8.19	0.52
T2	2862.59	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.25	222.36	1.02	222.44	0.002797	1.51	5.23	14.39	0.48
T2	2862.59	50 Year	DonPhaseII_Final_Baseline	2.70	221.25	222.12	0.77	222.20	0.003596	1.43	3.11	6.85	0.52
T2	2862.59	100 Year	DonPhaseII_Final_Proposed	3.20	221.25	222.20	0.85	222.29	0.003513	1.50	3.69	8.19	0.52
T2	2862.59	25 Year	DonPhaseII_Final_Baseline	2.18	221.25	222.02	0.68	222.10	0.003821	1.35	2.51	6.11	0.52
T2	2862.59	50 Year	DonPhaseII_Final_Proposed	2.70	221.25	222.12	0.77	222.20	0.003596	1.43	3.11	6.85	0.52
T2	2862.59	10 Year	DonPhaseII_Final_Baseline	1.64	221.25	221.92	0.58	221.99	0.004065	1.25	1.92	5.34	0.52
T2	2862.59	25 Year	DonPhaseII_Final_Proposed	2.18	221.25	222.02	0.68	222.10	0.003821	1.35	2.51	6.11	0.52
T2	2862.59	5 Year	DonPhaseII_Final_Baseline	1.18	221.25	221.83	0.49	221.88	0.004003	1.10	1.46	4.60	0.51
T2	2862.59	10 Year	DonPhaseII_Final_Proposed	1.64	221.25	221.92	0.58	221.99	0.004065	1.25	1.92	5.34	0.52
T2	2862.59	2 Year	DonPhaseII_Final_Baseline	0.56	221.25	221.69	0.34	221.72	0.003192	0.78	0.88	3.61	0.43
T2	2862.59	5 Year	DonPhaseII_Final_Proposed	1.18	221.25	221.83	0.49	221.88	0.004003	1.10	1.46	4.60	0.51
T2	2862.59	2 Year	DonPhaseII_Final_Proposed	0.56	221.25	221.69	0.34	221.72	0.003192	0.78	0.88	3.61	0.43
T2	2843.84			Culvert									
T2	2801.94	Regional	DonPhaseII_Final_Baseline	42.34	221.41	226.20	4.74	226.20	0.000062	0.63	186.41	83.70	0.09
T2	2801.94	Regional	DonPhaseII_Final_Proposed	42.34	221.41	226.20	4.74	226.20	0.000062	0.63	186.41	83.70	0.09
T2	2801.94	350 Year	DonPhaseII_Final_Baseline	4.92	221.41	222.10	0.64	222.33	0.012111	2.32	3.27	8.42	0.93
T2	2801.94	350 Year	DonPhaseII_Final_Proposed	4.92	221.41	222.10	0.64	222.33	0.012111	2.32	3.27	8.42	0.93
T2	2801.94	100 Year	DonPhaseII_Final_Baseline	3.20	221.41	221.96	0.50	222.15	0.013097	2.05	2.20	7.08	0.92
T2	2801.94	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.41	222.04	0.58	222.26	0.012575	2.22	2.79	7.86	0.93
T2	2801.94	50 Year	DonPhaseII_Final_Baseline	2.70	221.41	221.92	0.45	222.09	0.013522	1.95	1.87	6.53	0.92
T2	2801.94	100 Year	DonPhaseII_Final_Proposed	3.20	221.41	221.96	0.50	222.15	0.013097	2.05	2.20	7.08	0.92
T2	2801.94	25 Year	DonPhaseII_Final_Baseline	2.18	221.41	221.86	0.39	222.02	0.014909	1.86	1.50	5.69	0.95
T2	2801.94	50 Year	DonPhaseII_Final_Proposed	2.70	221.41	221.92	0.45	222.09	0.013522	1.95	1.87	6.53	0.92
T2	2801.94	10 Year	DonPhaseII_Final_Baseline	1.64	221.41	221.79	0.33	221.93	0.015826	1.71	1.17	4.78	0.95
T2	2801.94	25 Year	DonPhaseII_Final_Proposed	2.18	221.41	221.86	0.39	222.02	0.014909	1.86	1.50	5.69	0.95
T2	2801.94	5 Year	DonPhaseII_Final_Baseline	1.18	221.41	221.73	0.27	221.85	0.017311	1.55	0.88	4.32	0.96
T2	2801.94	10 Year	DonPhaseII_Final_Proposed	1.64	221.41	221.79	0.33	221.93	0.015826	1.71	1.17	4.78	0.95
T2	2801.94	2 Year	DonPhaseII_Final_Baseline	0.56	221.41	221.63	0.17	221.70	0.020379	1.22	0.49	3.54	0.96
T2	2801.94	5 Year	DonPhaseII_Final_Proposed	1.18	221.41	221.73	0.27	221.85	0.017311	1.55	0.88	4.32	0.96
T2	2801.94	2 Year	DonPhaseII_Final_Proposed	0.56	221.41	221.63	0.17	221.70	0.020379	1.22	0.49	3.54	0.96
T2	2784.89	Regional	DonPhaseII_Final_Baseline	42.34	220.84	226.20	5.32	226.20	0.000049	0.61	175.88	60.59	0.08
T2	2784.89	Regional	DonPhaseII_Final_Proposed	42.34	220.84	226.20	5.32	226.20	0.000049	0.61	175.88	60.59	0.08
T2	2784.89	350 Year	DonPhaseII_Final_Baseline	4.92	220.84	221.51	0.64	221.76	0.012626	2.38	2.97	7.14	0.95
T2	2784.89	350 Year	DonPhaseII_Final_Proposed	4.92	220.84	221.51	0.64	221.76	0.012626	2.38	2.97	7.14	0.95
T2	2784.89	100 Year	DonPhaseII_Final_Baseline	3.20	220.84	221.36	0.49	221.57	0.013947	2.10	2.01	5.95	0.96
T2	2784.89	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	220.84	221.45	0.58	221.68	0.013103	2.26	2.55	6.64	0.95
T2	2784.89	50 Year	DonPhaseII_Final_Baseline	2.70	220.84	221.32	0.44	221.50	0.014522	2.00	1.73	5.55	0.96
T2	2784.89	100 Year	DonPhaseII_Final_Proposed	3.20	220.84	221.36	0.49	221.57	0.013947	2.10	2.01	5.95	0.96
T2	2784.89	25 Year	DonPhaseII_Final_Baseline	2.18	220.84	221.26	0.39	221.43	0.015378	1.88	1.43	5.08	0.96
T2	2784.89	50 Year	DonPhaseII_Final_Proposed	2.70	220.84	221.32	0.44	221.50	0.014522	2.00	1.73	5.55	0.96
T2	2784.89	10 Year	DonPhaseII_Final_Baseline	1.64	220.84	221.19	0.32	221.34	0.016647	1.73	1.12	4.55	0.97
T2	2784.89	25 Year	DonPhaseII_Final_Proposed	2.18	220.84	221.26	0.39	221.43	0.015378	1.88	1.43	5.08	0.96
T2	2784.89	5 Year	DonPhaseII_Final_Baseline	1.18	220.84	221.13	0.26	221.25	0.018021	1.56	0.86	4.10	0.98
T2	2784.89	10 Year	DonPhaseII_Final_Proposed	1.64	220.84	221.19	0.32	221.34	0.016647	1.73	1.12	4.55	0.97
T2	2784.89	2 Year	DonPhaseII_Final_Baseline	0.56	220.84	221.03	0.16	221.11	0.021680	1.24	0.48	3.43	0.99
T2	2784.89	5 Year	DonPhaseII_Final_Proposed	1.18	220.84	221.13	0.26	221.25	0.018021	1.56	0.86	4.10	0.98
T2	2784.89	2 Year	DonPhaseII_Final_Proposed	0.56	220.84	221.03	0.16	221.11	0.021680	1.24	0.48	3.43	0.99
T2	2774.1	Regional	DonPhaseII_Final_Baseline	42.34	220.35	226.20	5.75	226.20	0.000036	0.54	242.43	94.55	0.07
T2	2774.1	Regional	DonPhaseII_Final_Proposed	42.34	220.35	226.20	5.75	226.20	0.000036	0.54	242.43	94.55	0.07
T2	2774.1	350 Year	DonPhaseII_Final_Baseline	4.92	220.35	221.23	0.79	221.51	0.011352	2.57	2.93	5.97	0.92
T2	2774.1	350 Year	DonPhaseII_Final_Proposed	4.92	220.35	221.23	0.79	221.51	0.011352	2.57	2.93	5.97	0.92
T2	2774.1	100 Year	DonPhaseII_Final_Baseline	3.20	220.35	221.05	0.61	221.29	0.012973	2.31	1.95	4.90	0.94
T2	2774.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	220.35	221.17	0.72	221.42	0.011341	2.42	2.56	5.62	0.91
T2	2774.1	50 Year	DonPhaseII_Final_Baseline	2.70	220.35	220.99	0.55	221.21	0.013445	2.19	1.67	4.53	0.95
T2	2774.1	100 Year	DonPhaseII_Final_Proposed	3.20	220.35	221.05	0.61	221.29	0.012973	2.31	1.95	4.90	0.94
T2	2774.1	25 Year	DonPhaseII_Final_Baseline	2.18	220.35	220.92	0.48	221.12	0.014327	2.07	1.37	4.09	0.95
T2	2774.1	50 Year	DonPhaseII_Final_Proposed	2.70	220.35	220.99	0.55	221.21	0.013445	2.19	1.67	4.53	0.95
T2	2774.1	10 Year	DonPhaseII_Final_Baseline	1.64	220.35	220.84	0.40	221.02	0.015224	1.90	1.07	3.70	0.96
T2	2774.1	25 Year	DonPhaseII_Final_Proposed	2.18	220.35	220.92	0.48	221.12	0.014327	2.07	1.37	4.09	0.95
T2	2774.1	5 Year	DonPhaseII_Final_Baseline	1.18	220.35	220.77	0.33	220.91	0.016358	1.72	0.81	3.29	0.96
T2	2774.1	10 Year	DonPhaseII_Final_Proposed	1.64	220.35	220.84	0.40	221.02	0.015224	1.90	1.07	3.70	0.96
T2	2774.1	2 Year	DonPhaseII_Final_Baseline	0.56	220.35	220.64	0.20	220.74	0.020125	1.37	0.44	2.57	0.98
T2	2774.1	5 Year	DonPhaseII_Final_Proposed	1.18	220.35	220.77	0.33	220.91	0.016358	1.72	0.81	3.29	0.96
T2	2774.1	2 Year	DonPhaseII_Final_Proposed	0.56	220.35	220.64	0.20	220.74	0.020125	1.37	0.44	2.57	0.98
T2	2747.07			Culvert									
T2	2714.48	Regional	DonPhaseII_Final_Baseline	42.34	219.63	221.73	1.95	222.58	0.009762	4.30	12.19	82.20	0.98
T2	2714.48	Regional	DonPhaseII_Final_Proposed	42.34	219.63	221.73	1.95	222.58	0.009762	4.30	12.19	82.20	0.98
T2	2714.48	350 Year	DonPhaseII_Final_Baseline	4.92	219.63	220.45	0.67	220.57	0.005394	1.57	3.40	14.47	0.61
T2	2714.48	350 Year	DonPhaseII_Final_Proposed	4.92	219.63	220.45	0.67	220.57	0.005394	1.57	3.40	14.47	0.61
T2	2714.48	100 Year	DonPhaseII_Final_Baseline	3.20	219.63	220.28	0.51	220.37	0.005876	1.37	2.47	5.22	0.61
T2	2714.48	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	219.63	220.37	0.60	220.48	0.005788	1.50	2.97	5.55	0.62
T2	2714.48	50 Year	DonPhaseII_Final_Baseline	2.70	219.63	220.22	0.47	220.31	0.005893	1.30	2.19	5.04	0.60
T2	2714.48	100 Year	DonPhaseII_Final_Proposed	3.20	219.63	220.28	0.51	220.37	0.005876	1.37	2.47	5.22	0.61
T2	2714.48	25 Year	DonPhaseII_Final_Baseline	2.18	219.63	220.16	0.42	220.23	0.005979	1.21	1.87	4.83	0.60
T2	2714.48	50 Year	DonPhaseII_Final_Proposed	2.70	219.63	220.22	0.47	220.31	0.005893	1.30	2.19	5.04	0.60
T2	2714.48	10 Year	DonPhaseII_Final_Baseline	1.64	219.63	220.08	0.36	220.15	0.006186	1.11	1.52	4.58	0.59
T2	2714.48	25 Year	DonPhaseII_Final_Proposed	2.18	219.63	220.16	0.42	220.23	0.005979	1.21	1.87	4.83	0.60
T2	2714.48	5 Year	DonPhaseII_Final_Baseline	1.18	219.63	220.02	0.30	220.07	0.006158	0.99	1.22	4.35	0.58
T2	2714.48	10 Year	DonPhaseII_Final_Proposed	1.64	219.63	220.08	0.36	220.15	0.006186	1.11	1.52	4.58	0.59
T2	2714.48	2 Year	DonPhaseII_Final_Baseline	0.56	219.63	219.91	0.21	219.93	0.005528	0.73	0.77	3.82	0.51
T2	2714.48	5 Year	DonPhaseII_Final_Proposed	1.18	219.63	220.02	0.30	220.07	0.006158	0.99	1.22	4.35	0.58
T2	2714.48	2 Year	DonPhaseII_Final_Proposed	0.56	219.63	219.91	0.21	219.93	0.005528	0.73	0.77	3.82	0.51
T2	2695.68	Regional	DonPhaseII_Final_Baseline	42.34	219.54	221.06	1.50	221.12	0.002912	2.02	65.10	87.90	0.53
T2	2695.68	Regional	DonPhaseII_Final_Proposed	42.34	219.54	221.06	1.50	221.12	0.002912	2.02	65.10	87.90	0.53

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	2695.68	350 Year	DonPhaseII_Final_Baseline	4.92	219.54	220.16	0.60	220.39	0.013073	2.33	3.28	30.63	0.96
T2	2695.68	350 Year	DonPhaseII_Final_Proposed	4.92	219.54	220.16	0.60	220.39	0.013073	2.33	3.28	30.63	0.96
T2	2695.68	100 Year	DonPhaseII_Final_Baseline	3.20	219.54	220.06	0.50	220.21	0.010930	1.88	2.50	16.84	0.85
T2	2695.68	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	219.54	220.13	0.57	220.32	0.011191	2.08	3.04	26.75	0.88
T2	2695.68	50 Year	DonPhaseII_Final_Baseline	2.70	219.54	220.02	0.46	220.15	0.010374	1.73	2.24	13.04	0.82
T2	2695.68	100 Year	DonPhaseII_Final_Proposed	3.20	219.54	220.06	0.50	220.21	0.010930	1.88	2.50	16.84	0.85
T2	2695.68	25 Year	DonPhaseII_Final_Baseline	2.18	219.54	219.98	0.42	220.09	0.009241	1.55	1.99	11.69	0.76
T2	2695.68	50 Year	DonPhaseII_Final_Proposed	2.70	219.54	220.02	0.46	220.15	0.010374	1.73	2.24	13.04	0.82
T2	2695.68	10 Year	DonPhaseII_Final_Baseline	1.64	219.54	219.97	0.41	220.04	0.005739	1.20	1.92	11.25	0.60
T2	2695.68	25 Year	DonPhaseII_Final_Proposed	2.18	219.54	219.98	0.42	220.09	0.009241	1.55	1.99	11.69	0.76
T2	2695.68	5 Year	DonPhaseII_Final_Baseline	1.18	219.54	219.90	0.34	219.95	0.005791	1.06	1.50	8.37	0.58
T2	2695.68	10 Year	DonPhaseII_Final_Proposed	1.64	219.54	219.97	0.41	220.04	0.005739	1.20	1.92	11.25	0.60
T2	2695.68	2 Year	DonPhaseII_Final_Baseline	0.56	219.54	219.76	0.20	219.80	0.008947	0.92	0.74	4.82	0.66
T2	2695.68	5 Year	DonPhaseII_Final_Proposed	1.18	219.54	219.90	0.34	219.95	0.005791	1.06	1.50	8.37	0.58
T2	2695.68	2 Year	DonPhaseII_Final_Proposed	0.56	219.54	219.76	0.20	219.80	0.008947	0.92	0.74	4.82	0.66
T2	2620.51	Regional	DonPhaseII_Final_Baseline	42.34	218.93	221.02	2.00	221.04	0.000634	1.14	90.71	64.95	0.26
T2	2620.51	Regional	DonPhaseII_Final_Proposed	42.34	218.93	221.02	2.00	221.04	0.000634	1.14	90.71	64.95	0.26
T2	2620.51	350 Year	DonPhaseII_Final_Baseline	4.92	218.93	219.54	0.51	219.64	0.008057	1.64	5.87	31.54	0.73
T2	2620.51	350 Year	DonPhaseII_Final_Proposed	4.92	218.93	219.54	0.51	219.64	0.008057	1.64	5.87	31.54	0.73
T2	2620.51	100 Year	DonPhaseII_Final_Baseline	3.20	218.93	219.45	0.43	219.54	0.007691	1.42	3.67	22.38	0.69
T2	2620.51	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	218.93	219.49	0.47	219.60	0.008625	1.60	4.64	26.52	0.74
T2	2620.51	50 Year	DonPhaseII_Final_Baseline	2.70	218.93	219.42	0.40	219.51	0.007510	1.34	3.04	20.44	0.68
T2	2620.51	100 Year	DonPhaseII_Final_Proposed	3.20	218.93	219.45	0.43	219.54	0.007691	1.42	3.67	22.38	0.69
T2	2620.51	25 Year	DonPhaseII_Final_Baseline	2.18	218.93	219.38	0.35	219.46	0.008045	1.28	2.22	14.88	0.69
T2	2620.51	50 Year	DonPhaseII_Final_Proposed	2.70	218.93	219.42	0.40	219.51	0.007510	1.34	3.04	20.44	0.68
T2	2620.51	10 Year	DonPhaseII_Final_Baseline	1.64	218.93	219.27	0.25	219.38	0.016017	1.43	1.19	5.26	0.91
T2	2620.51	25 Year	DonPhaseII_Final_Proposed	2.18	218.93	219.38	0.35	219.46	0.008045	1.28	2.22	14.88	0.69
T2	2620.51	5 Year	DonPhaseII_Final_Baseline	1.18	218.93	219.23	0.21	219.31	0.014741	1.22	0.98	5.05	0.85
T2	2620.51	10 Year	DonPhaseII_Final_Proposed	1.64	218.93	219.27	0.25	219.38	0.016017	1.43	1.19	5.26	0.91
T2	2620.51	2 Year	DonPhaseII_Final_Baseline	0.56	218.93	219.19	0.17	219.22	0.006874	0.72	0.78	4.83	0.56
T2	2620.51	5 Year	DonPhaseII_Final_Proposed	1.18	218.93	219.23	0.21	219.31	0.014741	1.22	0.98	5.05	0.85
T2	2620.51	2 Year	DonPhaseII_Final_Proposed	0.56	218.93	219.19	0.17	219.22	0.006874	0.72	0.78	4.83	0.56
T2	2500.02	Regional	DonPhaseII_Final_Baseline	42.34	218.05	221.02	2.95	221.02	0.000086	0.55	206.91	93.97	0.10
T2	2500.02	Regional	DonPhaseII_Final_Proposed	42.34	218.05	221.02	2.95	221.02	0.000086	0.55	206.91	93.97	0.10
T2	2500.02	350 Year	DonPhaseII_Final_Baseline	4.92	218.05	218.54	0.48	218.63	0.012580	1.96	7.25	38.28	0.90
T2	2500.02	350 Year	DonPhaseII_Final_Proposed	4.92	218.05	218.54	0.48	218.63	0.012580	1.96	7.25	38.28	0.90
T2	2500.02	100 Year	DonPhaseII_Final_Baseline	3.20	218.05	218.44	0.38	218.51	0.012963	1.71	4.23	21.92	0.88
T2	2500.02	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	218.05	218.51	0.45	218.58	0.011293	1.77	6.12	34.82	0.85
T2	2500.02	50 Year	DonPhaseII_Final_Baseline	2.70	218.05	218.41	0.35	218.48	0.013068	1.62	3.62	18.47	0.87
T2	2500.02	100 Year	DonPhaseII_Final_Proposed	3.20	218.05	218.44	0.38	218.51	0.012963	1.71	4.23	21.92	0.88
T2	2500.02	25 Year	DonPhaseII_Final_Baseline	2.18	218.05	218.39	0.33	218.44	0.011285	1.44	3.20	17.30	0.80
T2	2500.02	50 Year	DonPhaseII_Final_Proposed	2.70	218.05	218.41	0.35	218.48	0.013068	1.62	3.62	18.47	0.87
T2	2500.02	10 Year	DonPhaseII_Final_Baseline	1.64	218.05	218.40	0.34	218.43	0.005361	1.02	3.46	18.05	0.56
T2	2500.02	25 Year	DonPhaseII_Final_Proposed	2.18	218.05	218.39	0.33	218.44	0.011285	1.44	3.20	17.30	0.80
T2	2500.02	5 Year	DonPhaseII_Final_Baseline	1.18	218.05	218.35	0.29	218.37	0.005540	0.92	2.58	12.70	0.55
T2	2500.02	10 Year	DonPhaseII_Final_Proposed	1.64	218.05	218.40	0.34	218.43	0.005361	1.02	3.46	18.05	0.56
T2	2500.02	2 Year	DonPhaseII_Final_Baseline	0.56	218.05	218.22	0.16	218.24	0.011972	0.90	1.14	9.91	0.73
T2	2500.02	5 Year	DonPhaseII_Final_Proposed	1.18	218.05	218.35	0.29	218.37	0.005540	0.92	2.58	12.70	0.55
T2	2500.02	2 Year	DonPhaseII_Final_Proposed	0.56	218.05	218.22	0.16	218.24	0.011972	0.90	1.14	9.91	0.73
T2	2399.99	Regional	DonPhaseII_Final_Baseline	42.34	217.10	221.02	3.89	221.02	0.000025	0.35	321.32	111.68	0.06
T2	2399.99	Regional	DonPhaseII_Final_Proposed	42.34	217.10	221.02	3.89	221.02	0.000025	0.35	321.32	111.68	0.06
T2	2399.99	350 Year	DonPhaseII_Final_Baseline	4.92	217.10	217.78	0.65	217.85	0.007383	1.84	9.67	53.78	0.73
T2	2399.99	350 Year	DonPhaseII_Final_Proposed	4.92	217.10	217.78	0.65	217.85	0.007383	1.84	9.67	53.78	0.73
T2	2399.99	100 Year	DonPhaseII_Final_Baseline	3.20	217.10	217.72	0.59	217.79	0.006362	1.60	6.73	45.53	0.67
T2	2399.99	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	217.10	217.74	0.62	217.82	0.007650	1.81	8.01	47.89	0.73
T2	2399.99	50 Year	DonPhaseII_Final_Baseline	2.70	217.10	217.70	0.57	217.76	0.006047	1.52	5.82	42.29	0.64
T2	2399.99	100 Year	DonPhaseII_Final_Proposed	3.20	217.10	217.72	0.59	217.79	0.006362	1.60	6.73	45.53	0.67
T2	2399.99	25 Year	DonPhaseII_Final_Baseline	2.18	217.10	217.66	0.53	217.73	0.006487	1.50	4.28	37.05	0.66
T2	2399.99	50 Year	DonPhaseII_Final_Proposed	2.70	217.10	217.70	0.57	217.76	0.006047	1.52	5.82	42.29	0.64
T2	2399.99	10 Year	DonPhaseII_Final_Baseline	1.64	217.10	217.52	0.39	217.68	0.015744	1.92	1.29	4.88	0.98
T2	2399.99	25 Year	DonPhaseII_Final_Proposed	2.18	217.10	217.66	0.53	217.73	0.006487	1.50	4.28	37.05	0.66
T2	2399.99	5 Year	DonPhaseII_Final_Baseline	1.18	217.10	217.45	0.32	217.58	0.016598	1.74	0.97	4.32	0.97
T2	2399.99	10 Year	DonPhaseII_Final_Proposed	1.64	217.10	217.52	0.39	217.68	0.015744	1.92	1.29	4.88	0.98
T2	2399.99	2 Year	DonPhaseII_Final_Baseline	0.56	217.10	217.40	0.27	217.45	0.007151	1.01	0.75	3.89	0.62
T2	2399.99	5 Year	DonPhaseII_Final_Proposed	1.18	217.10	217.45	0.32	217.58	0.016598	1.74	0.97	4.32	0.97
T2	2399.99	2 Year	DonPhaseII_Final_Proposed	0.56	217.10	217.40	0.27	217.45	0.007151	1.01	0.75	3.89	0.62
T2	2299.04	Regional	DonPhaseII_Final_Baseline	42.34	216.28	221.01	4.69	221.02	0.000008	0.23	322.26	94.32	0.03
T2	2299.04	Regional	DonPhaseII_Final_Proposed	42.34	216.28	221.01	4.69	221.02	0.000008	0.23	322.26	94.32	0.03
T2	2299.04	350 Year	DonPhaseII_Final_Baseline	4.92	216.28	217.45	1.13	217.46	0.000078	0.27	31.64	57.31	0.08
T2	2299.04	350 Year	DonPhaseII_Final_Proposed	4.92	216.28	217.45	1.13	217.46	0.000078	0.27	31.64	57.31	0.08
T2	2299.04	100 Year	DonPhaseII_Final_Baseline	3.20	216.28	216.85	0.53	216.92	0.006986	1.56	4.23	28.70	0.68
T2	2299.04	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	216.28	216.89	0.57	216.96	0.006883	1.62	5.34	30.98	0.69
T2	2299.04	50 Year	DonPhaseII_Final_Baseline	2.70	216.28	216.83	0.51	216.90	0.006636	1.48	3.66	25.59	0.66
T2	2299.04	100 Year	DonPhaseII_Final_Proposed	3.20	216.28	216.85	0.53	216.92	0.006986	1.56	4.23	28.70	0.68
T2	2299.04	25 Year	DonPhaseII_Final_Baseline	2.18	216.28	216.83	0.51	216.88	0.004537	1.22	3.58	25.19	0.55
T2	2299.04	50 Year	DonPhaseII_Final_Proposed	2.70	216.28	216.83	0.51	216.90	0.006636	1.48	3.66	25.59	0.66
T2	2299.04	10 Year	DonPhaseII_Final_Baseline	1.64	216.28	216.80	0.48	216.84	0.003894	1.09	2.91	22.39	0.50
T2	2299.04	25 Year	DonPhaseII_Final_Proposed	2.18	216.28	216.83	0.51	216.88	0.004537	1.22	3.58	25.19	0.55
T2	2299.04	5 Year	DonPhaseII_Final_Baseline	1.18	216.28	216.75	0.43	216.79	0.003977	1.02	1.97	15.32	0.50
T2	2299.04	10 Year	DonPhaseII_Final_Proposed	1.64	216.28	216.80	0.48	216.84	0.003894	1.09	2.91	22.39	0.50
T2	2299.04	2 Year	DonPhaseII_Final_Baseline	0.56	216.28	216.57	0.24	216.62	0.009795	1.09	0.60	3.22	0.71
T2	2299.04	5 Year	DonPhaseII_Final_Proposed	1.18	216.28	216.75	0.43	216.79	0.003977	1.02	1.97	15.32	0.50
T2	2299.04	2 Year	DonPhaseII_Final_Proposed	0.56	216.28	216.57	0.24	216.62	0.009795	1.09	0.60	3.22	0.71
T2	2200	Regional	DonPhaseII_Final_Baseline	42.34	215.59	221.01	5.32	221.01	0.000010	0.28	374.62	89.51	0.04
T2	2200	Regional	DonPhaseII_Final_Proposed	42.34	215.59	221.01	5.32	221.01	0.000010	0.28	374.62	89.51	0.04
T2	2200	350 Year	DonPhaseII_Final_Baseline	4.92	215.59	217.45	1.76	217.45	0.000020	0.18	75.17	76.06	0.04
T2	2200	350 Year	DonPhaseII_Final_Proposed	4.92	215.59	217.45	1.76	217.45	0.000020	0.18	75.17	76.06	0.04
T2	2200	100 Year	DonPhaseII_Final_Baseline	3.20	215.59	216.24	0.54	216.32	0.006226	1.47	5.45	40.83	0.64
T2	2200	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	215.59	216.68	0.99	216.69	0.000261	0.45	25.24	48.07	0.14
T2	2200	50 Year	DonPhaseII_Final_Baseline	2.70	215.59	216.20	0.50	216.29	0.007057	1.48	3.97	32.85	0.67
T2	2200	100 Year	DonPhaseII_Final_Proposed	3.20	215.59	216.24	0.54	216.32	0.006226	1.47	5.45	40.83	0.64
T2	2200	25 Year	DonPhaseII_Final_Baseline	2.18	215.59	216.11	0.42	216.25	0.011344	1.67	1.85	15.58	0.82

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	2200	50 Year	DonPhaseII_Final_Proposed	2.70	215.59	216.20	0.50	216.29	0.007057	1.48	3.97	32.85	0.67
T2	2200	10 Year	DonPhaseII_Final_Baseline	1.64	215.59	216.01	0.32	216.16	0.017405	1.73	1.02	4.34	0.98
T2	2200	25 Year	DonPhaseII_Final_Proposed	2.18	215.59	216.11	0.42	216.25	0.011344	1.67	1.85	15.58	0.82
T2	2200	5 Year	DonPhaseII_Final_Baseline	1.18	215.59	215.95	0.26	216.07	0.019191	1.58	0.78	3.35	0.99
T2	2200	10 Year	DonPhaseII_Final_Proposed	1.64	215.59	216.01	0.32	216.16	0.017405	1.73	1.02	4.34	0.98
T2	2200	2 Year	DonPhaseII_Final_Baseline	0.56	215.59	215.94	0.25	215.97	0.004787	0.77	0.75	3.30	0.49
T2	2200	5 Year	DonPhaseII_Final_Proposed	1.18	215.59	215.95	0.26	216.07	0.019191	1.58	0.78	3.35	0.99
T2	2200	2 Year	DonPhaseII_Final_Proposed	0.56	215.59	215.94	0.25	215.97	0.004787	0.77	0.75	3.30	0.49
T2	2097.88	Regional	DonPhaseII_Final_Baseline	42.34	214.89	221.01	5.96	221.01	0.000019	0.41	276.36	77.99	0.05
T2	2097.88	Regional	DonPhaseII_Final_Proposed	42.34	214.89	221.01	5.96	221.01	0.000019	0.41	276.36	77.99	0.05
T2	2097.88	350 Year	DonPhaseII_Final_Baseline	4.92	214.89	217.45	2.40	217.45	0.000014	0.19	60.40	43.32	0.04
T2	2097.88	350 Year	DonPhaseII_Final_Proposed	4.92	214.89	217.45	2.40	217.45	0.000014	0.19	60.40	43.32	0.04
T2	2097.88	100 Year	DonPhaseII_Final_Baseline	3.20	214.89	216.16	1.10	216.16	0.000222	0.45	13.70	28.04	0.14
T2	2097.88	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	214.89	216.67	1.62	216.68	0.000061	0.30	30.10	34.94	0.08
T2	2097.88	50 Year	DonPhaseII_Final_Baseline	2.70	214.89	215.91	0.86	215.92	0.000457	0.54	7.81	18.35	0.19
T2	2097.88	100 Year	DonPhaseII_Final_Proposed	3.20	214.89	216.16	1.10	216.16	0.000222	0.45	13.70	28.04	0.14
T2	2097.88	25 Year	DonPhaseII_Final_Baseline	2.18	214.89	215.70	0.65	215.72	0.000914	0.64	4.42	13.85	0.25
T2	2097.88	50 Year	DonPhaseII_Final_Proposed	2.70	214.89	215.91	0.86	215.92	0.000457	0.54	7.81	18.35	0.19
T2	2097.88	10 Year	DonPhaseII_Final_Baseline	1.64	214.89	215.50	0.45	215.52	0.001823	0.71	2.62	6.84	0.34
T2	2097.88	25 Year	DonPhaseII_Final_Proposed	2.18	214.89	215.70	0.65	215.72	0.000914	0.64	4.42	13.85	0.25
T2	2097.88	5 Year	DonPhaseII_Final_Baseline	1.18	214.89	215.34	0.34	215.37	0.003164	0.78	1.65	5.55	0.42
T2	2097.88	10 Year	DonPhaseII_Final_Proposed	1.64	214.89	215.50	0.45	215.52	0.001823	0.71	2.62	6.84	0.34
T2	2097.88	2 Year	DonPhaseII_Final_Baseline	0.56	214.89	215.10	0.16	215.16	0.015469	1.02	0.55	3.69	0.83
T2	2097.88	5 Year	DonPhaseII_Final_Proposed	1.18	214.89	215.34	0.34	215.37	0.003164	0.78	1.65	5.55	0.42
T2	2097.88	2 Year	DonPhaseII_Final_Proposed	0.56	214.89	215.10	0.16	215.16	0.015469	1.02	0.55	3.69	0.83
T2	2088.06	Regional	DonPhaseII_Final_Baseline	47.47	214.45	221.00	6.15	221.01	0.000057	0.68	207.18	70.41	0.09
T2	2088.06	Regional	DonPhaseII_Final_Proposed	47.47	214.45	221.00	6.15	221.01	0.000057	0.68	207.18	70.41	0.09
T2	2088.06	350 Year	DonPhaseII_Final_Baseline	6.08	214.45	217.44	2.59	217.45	0.000100	0.50	23.64	26.23	0.10
T2	2088.06	350 Year	DonPhaseII_Final_Proposed	6.08	214.45	217.44	2.59	217.45	0.000100	0.50	23.64	26.23	0.10
T2	2088.06	100 Year	DonPhaseII_Final_Baseline	3.62	214.45	216.12	1.27	216.15	0.000708	0.83	6.28	8.46	0.24
T2	2088.06	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	214.45	216.65	1.80	216.67	0.000296	0.68	12.11	15.52	0.16
T2	2088.06	50 Year	DonPhaseII_Final_Baseline	2.91	214.45	215.88	1.02	215.91	0.001019	0.87	4.42	6.65	0.27
T2	2088.06	100 Year	DonPhaseII_Final_Proposed	3.62	214.45	216.12	1.27	216.15	0.000708	0.83	6.28	8.46	0.24
T2	2088.06	25 Year	DonPhaseII_Final_Baseline	2.22	214.45	215.67	0.81	215.70	0.001356	0.86	3.16	5.33	0.30
T2	2088.06	50 Year	DonPhaseII_Final_Proposed	2.91	214.45	215.88	1.02	215.91	0.001019	0.87	4.42	6.65	0.27
T2	2088.06	10 Year	DonPhaseII_Final_Baseline	1.60	214.45	215.47	0.62	215.50	0.001782	0.83	2.24	4.11	0.33
T2	2088.06	25 Year	DonPhaseII_Final_Proposed	2.22	214.45	215.67	0.81	215.70	0.001356	0.86	3.16	5.33	0.30
T2	2088.06	5 Year	DonPhaseII_Final_Baseline	1.15	214.45	215.32	0.54	215.35	0.001974	0.79	1.66	3.52	0.34
T2	2088.06	10 Year	DonPhaseII_Final_Proposed	1.60	214.45	215.47	0.62	215.50	0.001782	0.83	2.24	4.11	0.33
T2	2088.06	2 Year	DonPhaseII_Final_Baseline	0.56	214.45	215.07	0.39	215.10	0.002174	0.67	0.91	2.65	0.34
T2	2088.06	5 Year	DonPhaseII_Final_Proposed	1.15	214.45	215.32	0.54	215.35	0.001974	0.79	1.66	3.52	0.34
T2	2088.06	2 Year	DonPhaseII_Final_Proposed	0.56	214.45	215.07	0.39	215.10	0.002174	0.67	0.91	2.65	0.34
T2	2068.48			Culvert									
T2	2048.15	Regional	DonPhaseII_Final_Baseline	47.47	214.44	217.67	2.67	218.40	0.008334	4.34	19.10	15.63	0.85
T2	2048.15	Regional	DonPhaseII_Final_Proposed	47.47	214.44	217.67	2.67	218.40	0.008334	4.34	19.10	15.63	0.85
T2	2048.15	350 Year	DonPhaseII_Final_Baseline	6.08	214.44	215.74	0.75	216.10	0.017215	2.68	2.34	3.43	0.99
T2	2048.15	350 Year	DonPhaseII_Final_Proposed	6.08	214.44	215.74	0.75	216.10	0.017215	2.68	2.34	3.43	0.99
T2	2048.15	100 Year	DonPhaseII_Final_Baseline	3.62	214.44	215.49	0.57	215.77	0.019009	2.35	1.55	2.83	0.99
T2	2048.15	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	214.44	215.61	0.66	215.93	0.018115	2.52	1.90	3.11	0.99
T2	2048.15	50 Year	DonPhaseII_Final_Baseline	2.91	214.44	215.40	0.51	215.65	0.019908	2.23	1.31	2.62	1.00
T2	2048.15	100 Year	DonPhaseII_Final_Proposed	3.62	214.44	215.49	0.57	215.77	0.019009	2.35	1.55	2.83	0.99
T2	2048.15	25 Year	DonPhaseII_Final_Baseline	2.22	214.44	215.30	0.44	215.52	0.021469	2.11	1.05	2.37	1.01
T2	2048.15	50 Year	DonPhaseII_Final_Proposed	2.91	214.44	215.40	0.51	215.65	0.019908	2.23	1.31	2.62	1.00
T2	2048.15	10 Year	DonPhaseII_Final_Baseline	1.60	214.44	215.19	0.39	215.39	0.021860	1.95	0.82	2.12	1.00
T2	2048.15	25 Year	DonPhaseII_Final_Proposed	2.22	214.44	215.30	0.44	215.52	0.021469	2.11	1.05	2.37	1.01
T2	2048.15	5 Year	DonPhaseII_Final_Baseline	1.15	214.44	215.10	0.33	215.27	0.023121	1.83	0.63	1.88	1.01
T2	2048.15	10 Year	DonPhaseII_Final_Proposed	1.60	214.44	215.19	0.39	215.39	0.021860	1.95	0.82	2.12	1.00
T2	2048.15	2 Year	DonPhaseII_Final_Baseline	0.56	214.44	214.94	0.25	215.06	0.024628	1.56	0.36	1.45	1.00
T2	2048.15	5 Year	DonPhaseII_Final_Proposed	1.15	214.44	215.10	0.33	215.27	0.023121	1.83	0.63	1.88	1.01
T2	2048.15	2 Year	DonPhaseII_Final_Proposed	0.56	214.44	214.94	0.25	215.06	0.024628	1.56	0.36	1.45	1.00
T2	2032.78	Regional	DonPhaseII_Final_Baseline	47.47	213.94	215.63	1.64	215.98	0.009998	3.95	33.48	43.75	0.99
T2	2032.78	Regional	DonPhaseII_Final_Proposed	47.47	213.94	215.63	1.64	215.98	0.009998	3.95	33.48	43.75	0.99
T2	2032.78	350 Year	DonPhaseII_Final_Baseline	6.08	213.94	214.76	0.77	214.96	0.008623	2.21	4.97	17.33	0.81
T2	2032.78	350 Year	DonPhaseII_Final_Proposed	6.08	213.94	214.76	0.77	214.96	0.008623	2.21	4.97	17.33	0.81
T2	2032.78	100 Year	DonPhaseII_Final_Baseline	3.62	213.94	214.53	0.54	214.73	0.011827	2.06	2.32	6.64	0.89
T2	2032.78	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	213.94	214.57	0.58	214.85	0.015265	2.45	2.61	7.07	1.03
T2	2032.78	50 Year	DonPhaseII_Final_Baseline	2.91	213.94	214.49	0.50	214.65	0.010108	1.81	2.07	6.19	0.81
T2	2032.78	100 Year	DonPhaseII_Final_Proposed	3.62	213.94	214.53	0.54	214.73	0.011827	2.06	2.32	6.64	0.89
T2	2032.78	25 Year	DonPhaseII_Final_Baseline	2.22	213.94	214.42	0.43	214.55	0.010627	1.66	1.62	5.32	0.81
T2	2032.78	50 Year	DonPhaseII_Final_Proposed	2.91	213.94	214.49	0.50	214.65	0.010108	1.81	2.07	6.19	0.81
T2	2032.78	10 Year	DonPhaseII_Final_Baseline	1.60	213.94	214.37	0.38	214.46	0.008392	1.36	1.38	4.88	0.71
T2	2032.78	25 Year	DonPhaseII_Final_Proposed	2.22	213.94	214.42	0.43	214.55	0.010627	1.66	1.62	5.32	0.81
T2	2032.78	5 Year	DonPhaseII_Final_Baseline	1.15	213.94	214.30	0.31	214.37	0.008678	1.21	1.07	4.38	0.70
T2	2032.78	10 Year	DonPhaseII_Final_Proposed	1.60	213.94	214.37	0.38	214.46	0.008392	1.36	1.38	4.88	0.71
T2	2032.78	2 Year	DonPhaseII_Final_Baseline	0.56	213.94	214.20	0.21	214.24	0.008089	0.90	0.66	3.66	0.63
T2	2032.78	5 Year	DonPhaseII_Final_Proposed	1.15	213.94	214.30	0.31	214.37	0.008678	1.21	1.07	4.38	0.70
T2	2032.78	2 Year	DonPhaseII_Final_Proposed	0.56	213.94	214.20	0.21	214.24	0.008089	0.90	0.66	3.66	0.63
T2	2001.76	Regional	DonPhaseII_Final_Baseline	47.47	213.70	214.99	1.25	215.26	0.016859	4.29	32.54	50.04	1.23
T2	2001.76	Regional	DonPhaseII_Final_Proposed	47.47	213.70	214.99	1.25	215.26	0.016859	4.29	32.54	50.04	1.23
T2	2001.76	350 Year	DonPhaseII_Final_Baseline	6.08	213.70	214.43	0.68	214.54	0.008906	2.09	8.32	33.09	0.81
T2	2001.76	350 Year	DonPhaseII_Final_Proposed	6.08	213.70	214.43	0.68	214.54	0.008906	2.09	8.32	33.09	0.81
T2	2001.76	100 Year	DonPhaseII_Final_Baseline	3.62	213.70	214.34	0.59	214.43	0.007769	1.77	5.44	28.64	0.74
T2	2001.76	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	213.70	214.39	0.65	214.48	0.007723	1.87	7.06	32.04	0.74
T2	2001.76	50 Year	DonPhaseII_Final_Baseline	2.91	213.70	214.30	0.55	214.38	0.007337	1.64	4.38	24.08	0.71
T2	2001.76	100 Year	DonPhaseII_Final_Proposed	3.62	213.70	214.34	0.59	214.43	0.007769	1.77	5.44	28.64	0.74
T2	2001.76	25 Year	DonPhaseII_Final_Baseline	2.22	213.70	214.31	0.57	214.35	0.003727	1.19	4.73	25.27	0.51
T2	2001.76	50 Year	DonPhaseII_Final_Proposed	2.91	213.70	214.30	0.55	214.38	0.007337	1.64	4.38	24.08	0.71
T2	2001.76	10 Year	DonPhaseII_Final_Baseline	1.60	213.70	214.24	0.50	214.29	0.003836	1.11	3.20	18.53	0.50
T2	2001.76	25 Year	DonPhaseII_Final_Proposed	2.22	213.70	214.31	0.57	214.35	0.003727	1.19	4.73	25.27	0.51
T2	2001.76	5 Year	DonPhaseII_Final_Baseline	1.15	213.70	214.17	0.43	214.20	0.003630	0.97	2.27	10.50	0.48
T2	2001.76	10 Year	DonPhaseII_Final_Proposed	1.60	213.70	214.24	0.50	214.29	0.003836	1.11	3.20	18.53	0.50

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	2001.76	2 Year	DonPhaseII_Final_Baseline	0.56	213.70	214.02	0.28	214.05	0.004798	0.84	1.02	6.71	0.51
T2	2001.76	5 Year	DonPhaseII_Final_Proposed	1.15	213.70	214.17	0.43	214.20	0.003630	0.97	2.27	10.50	0.48
T2	2001.76	2 Year	DonPhaseII_Final_Proposed	0.56	213.70	214.02	0.28	214.05	0.004798	0.84	1.02	6.71	0.51
T2	1896.4	Regional	DonPhaseII_Final_Baseline	47.47	213.13	214.75	1.58	214.79	0.002015	1.73	66.93	74.68	0.44
T2	1896.4	Regional	DonPhaseII_Final_Proposed	47.47	213.13	214.75	1.58	214.79	0.002015	1.73	66.93	74.68	0.44
T2	1896.4	350 Year	DonPhaseII_Final_Baseline	6.08	213.13	213.85	0.68	213.90	0.004762	1.51	11.33	41.91	0.59
T2	1896.4	350 Year	DonPhaseII_Final_Proposed	6.08	213.13	213.85	0.68	213.90	0.004762	1.51	11.33	41.91	0.59
T2	1896.4	100 Year	DonPhaseII_Final_Baseline	3.62	213.13	213.73	0.55	213.80	0.007510	1.66	6.34	37.06	0.71
T2	1896.4	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	213.13	213.76	0.58	213.84	0.008550	1.83	7.48	38.45	0.77
T2	1896.4	50 Year	DonPhaseII_Final_Baseline	2.91	213.13	213.70	0.53	213.77	0.006969	1.55	5.42	36.08	0.68
T2	1896.4	100 Year	DonPhaseII_Final_Proposed	3.62	213.13	213.73	0.55	213.80	0.007510	1.66	6.34	37.06	0.71
T2	1896.4	25 Year	DonPhaseII_Final_Baseline	2.22	213.13	213.55	0.37	213.71	0.019408	2.06	1.90	7.73	1.08
T2	1896.4	50 Year	DonPhaseII_Final_Proposed	2.91	213.13	213.70	0.53	213.77	0.006969	1.55	5.42	36.08	0.68
T2	1896.4	10 Year	DonPhaseII_Final_Baseline	1.60	213.13	213.50	0.32	213.62	0.018352	1.80	1.50	6.85	1.02
T2	1896.4	25 Year	DonPhaseII_Final_Proposed	2.22	213.13	213.55	0.37	213.71	0.019408	2.06	1.90	7.73	1.08
T2	1896.4	5 Year	DonPhaseII_Final_Baseline	1.15	213.13	213.44	0.27	213.54	0.018995	1.62	1.15	6.20	1.00
T2	1896.4	10 Year	DonPhaseII_Final_Proposed	1.60	213.13	213.50	0.32	213.62	0.018352	1.80	1.50	6.85	1.02
T2	1896.4	2 Year	DonPhaseII_Final_Baseline	0.56	213.13	213.40	0.22	213.44	0.008736	0.98	0.89	5.74	0.66
T2	1896.4	5 Year	DonPhaseII_Final_Proposed	1.15	213.13	213.44	0.27	213.54	0.018995	1.62	1.15	6.20	1.00
T2	1896.4	2 Year	DonPhaseII_Final_Proposed	0.56	213.13	213.40	0.22	213.44	0.008736	0.98	0.89	5.74	0.66
T2	1800	Regional	DonPhaseII_Final_Baseline	47.47	212.48	214.67	2.08	214.69	0.001079	1.50	87.84	67.12	0.33
T2	1800	Regional	DonPhaseII_Final_Proposed	47.47	212.48	214.67	2.08	214.69	0.001079	1.50	87.84	67.12	0.33
T2	1800	350 Year	DonPhaseII_Final_Baseline	6.08	212.48	213.85	1.26	213.85	0.000169	0.43	38.67	48.78	0.12
T2	1800	350 Year	DonPhaseII_Final_Proposed	6.08	212.48	213.85	1.26	213.85	0.000169	0.43	38.67	48.78	0.12
T2	1800	100 Year	DonPhaseII_Final_Baseline	3.62	212.48	213.59	1.01	213.60	0.000168	0.37	26.99	43.75	0.12
T2	1800	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	212.48	213.71	1.12	213.71	0.000170	0.40	32.16	45.64	0.12
T2	1800	50 Year	DonPhaseII_Final_Baseline	2.91	212.48	213.51	0.92	213.51	0.000166	0.34	23.35	42.49	0.11
T2	1800	100 Year	DonPhaseII_Final_Proposed	3.62	212.48	213.59	1.01	213.60	0.000168	0.37	26.99	43.75	0.12
T2	1800	25 Year	DonPhaseII_Final_Baseline	2.22	212.48	213.42	0.84	213.42	0.000160	0.32	19.62	41.11	0.11
T2	1800	50 Year	DonPhaseII_Final_Proposed	2.91	212.48	213.51	0.92	213.51	0.000166	0.34	23.35	42.49	0.11
T2	1800	10 Year	DonPhaseII_Final_Baseline	1.60	212.48	213.33	0.74	213.33	0.000155	0.29	15.79	39.34	0.11
T2	1800	25 Year	DonPhaseII_Final_Proposed	2.22	212.48	213.42	0.84	213.42	0.000160	0.32	19.62	41.11	0.11
T2	1800	5 Year	DonPhaseII_Final_Baseline	1.15	212.48	213.24	0.66	213.24	0.000154	0.26	12.59	38.27	0.10
T2	1800	10 Year	DonPhaseII_Final_Proposed	1.60	212.48	213.33	0.74	213.33	0.000155	0.29	15.79	39.34	0.11
T2	1800	2 Year	DonPhaseII_Final_Baseline	0.56	212.48	212.90	0.31	212.92	0.003949	0.81	1.33	19.93	0.46
T2	1800	5 Year	DonPhaseII_Final_Proposed	1.15	212.48	213.24	0.66	213.24	0.000154	0.26	12.59	38.27	0.10
T2	1800	2 Year	DonPhaseII_Final_Proposed	0.56	212.48	212.90	0.31	212.92	0.003949	0.81	1.33	19.93	0.46
T2	1728.96	Regional	DonPhaseII_Final_Baseline	47.47	212.17	214.65	2.34	214.66	0.000294	0.86	130.75	73.84	0.18
T2	1728.96	Regional	DonPhaseII_Final_Proposed	47.47	212.17	214.65	2.34	214.66	0.000294	0.86	130.75	73.84	0.18
T2	1728.96	350 Year	DonPhaseII_Final_Baseline	6.08	212.17	213.85	1.54	213.85	0.000023	0.18	75.31	61.08	0.05
T2	1728.96	350 Year	DonPhaseII_Final_Proposed	6.08	212.17	213.85	1.54	213.85	0.000023	0.18	75.31	61.08	0.05
T2	1728.96	100 Year	DonPhaseII_Final_Baseline	3.62	212.17	213.59	1.29	213.59	0.000016	0.14	60.07	59.60	0.04
T2	1728.96	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	212.17	213.71	1.40	213.71	0.000020	0.16	66.99	60.18	0.04
T2	1728.96	50 Year	DonPhaseII_Final_Baseline	2.91	212.17	213.51	1.20	213.51	0.000014	0.12	55.07	59.16	0.03
T2	1728.96	100 Year	DonPhaseII_Final_Proposed	3.62	212.17	213.59	1.29	213.59	0.000016	0.14	60.07	59.60	0.04
T2	1728.96	25 Year	DonPhaseII_Final_Baseline	2.22	212.17	213.42	1.11	213.42	0.000011	0.10	49.82	58.68	0.03
T2	1728.96	50 Year	DonPhaseII_Final_Proposed	2.91	212.17	213.51	1.20	213.51	0.000014	0.12	55.07	59.16	0.03
T2	1728.96	10 Year	DonPhaseII_Final_Baseline	1.60	212.17	213.33	1.02	213.33	0.000008	0.08	44.28	58.16	0.03
T2	1728.96	25 Year	DonPhaseII_Final_Proposed	2.22	212.17	213.42	1.11	213.42	0.000011	0.10	49.82	58.68	0.03
T2	1728.96	5 Year	DonPhaseII_Final_Baseline	1.15	212.17	213.24	0.94	213.24	0.000006	0.07	39.51	57.71	0.02
T2	1728.96	10 Year	DonPhaseII_Final_Proposed	1.60	212.17	213.33	1.02	213.33	0.000008	0.08	44.28	58.16	0.03
T2	1728.96	2 Year	DonPhaseII_Final_Baseline	0.56	212.17	212.91	0.61	212.91	0.000010	0.06	20.83	55.60	0.03
T2	1728.96	5 Year	DonPhaseII_Final_Proposed	1.15	212.17	213.24	0.94	213.24	0.000006	0.07	39.51	57.71	0.02
T2	1728.96	2 Year	DonPhaseII_Final_Proposed	0.56	212.17	212.91	0.61	212.91	0.000010	0.06	20.83	55.60	0.03
T2	1677.64	Regional	DonPhaseII_Final_Baseline	47.47	211.68	214.64	2.67	214.65	0.000323	0.87	142.16	98.69	0.17
T2	1677.64	Regional	DonPhaseII_Final_Proposed	47.47	211.68	214.64	2.67	214.65	0.000323	0.87	142.16	98.69	0.17
T2	1677.64	350 Year	DonPhaseII_Final_Baseline	6.08	211.68	213.85	1.88	213.85	0.000022	0.18	80.44	67.81	0.04
T2	1677.64	350 Year	DonPhaseII_Final_Proposed	6.08	211.68	213.85	1.88	213.85	0.000022	0.18	80.44	67.81	0.04
T2	1677.64	100 Year	DonPhaseII_Final_Baseline	3.62	211.68	213.59	1.62	213.59	0.000015	0.14	63.71	64.34	0.03
T2	1677.64	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	211.68	213.71	1.74	213.71	0.000019	0.16	71.24	66.22	0.04
T2	1677.64	50 Year	DonPhaseII_Final_Baseline	2.91	211.68	213.51	1.54	213.51	0.000013	0.12	58.34	63.20	0.03
T2	1677.64	100 Year	DonPhaseII_Final_Proposed	3.62	211.68	213.59	1.62	213.59	0.000015	0.14	63.71	64.34	0.03
T2	1677.64	25 Year	DonPhaseII_Final_Baseline	2.22	211.68	213.42	1.45	213.42	0.000010	0.10	52.77	62.23	0.03
T2	1677.64	50 Year	DonPhaseII_Final_Proposed	2.91	211.68	213.51	1.54	213.51	0.000013	0.12	58.34	63.20	0.03
T2	1677.64	10 Year	DonPhaseII_Final_Baseline	1.60	211.68	213.32	1.36	213.32	0.000007	0.08	46.92	61.12	0.02
T2	1677.64	25 Year	DonPhaseII_Final_Proposed	2.22	211.68	213.42	1.45	213.42	0.000010	0.10	52.77	62.23	0.03
T2	1677.64	5 Year	DonPhaseII_Final_Baseline	1.15	211.68	213.24	1.27	213.24	0.000005	0.07	41.93	60.10	0.02
T2	1677.64	10 Year	DonPhaseII_Final_Proposed	1.60	211.68	213.32	1.36	213.32	0.000007	0.08	46.92	61.12	0.02
T2	1677.64	2 Year	DonPhaseII_Final_Baseline	0.56	211.68	212.91	0.95	212.91	0.000006	0.06	22.97	53.51	0.02
T2	1677.64	5 Year	DonPhaseII_Final_Proposed	1.15	211.68	213.24	1.27	213.24	0.000005	0.07	41.93	60.10	0.02
T2	1677.64	2 Year	DonPhaseII_Final_Proposed	0.56	211.68	212.91	0.95	212.91	0.000006	0.06	22.97	53.51	0.02
T2	1671.73	Regional	DonPhaseII_Final_Baseline	47.47	211.62	214.63	2.93	214.65	0.000365	1.11	120.50	80.32	0.21
T2	1671.73	Regional	DonPhaseII_Final_Proposed	47.47	211.62	214.63	2.93	214.65	0.000365	1.11	120.50	80.32	0.21
T2	1671.73	350 Year	DonPhaseII_Final_Baseline	6.08	211.62	213.84	2.14	213.85	0.000026	0.24	68.11	58.85	0.05
T2	1671.73	350 Year	DonPhaseII_Final_Proposed	6.08	211.62	213.84	2.14	213.85	0.000026	0.24	68.11	58.85	0.05
T2	1671.73	100 Year	DonPhaseII_Final_Baseline	3.62	211.62	213.59	1.89	213.59	0.000018	0.18	53.52	56.57	0.04
T2	1671.73	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	211.62	213.71	2.01	213.71	0.000022	0.21	60.11	57.71	0.05
T2	1671.73	50 Year	DonPhaseII_Final_Baseline	2.91	211.62	213.51	1.81	213.51	0.000015	0.16	48.82	55.05	0.04
T2	1671.73	100 Year	DonPhaseII_Final_Proposed	3.62	211.62	213.59	1.89	213.59	0.000018	0.18	53.52	56.57	0.04
T2	1671.73	25 Year	DonPhaseII_Final_Baseline	2.22	211.62	213.42	1.72	213.42	0.000011	0.14	44.04	52.30	0.03
T2	1671.73	50 Year	DonPhaseII_Final_Proposed	2.91	211.62	213.51	1.81	213.51	0.000015	0.16	48.82	55.05	0.04
T2	1671.73	10 Year	DonPhaseII_Final_Baseline	1.60	211.62	213.32	1.62	213.32	0.000008	0.11	39.25	49.12	0.03
T2	1671.73	25 Year	DonPhaseII_Final_Proposed	2.22	211.62	213.42	1.72	213.42	0.000011	0.14	44.04	52.30	0.03
T2	1671.73	5 Year	DonPhaseII_Final_Baseline	1.15	211.62	213.24	1.54	213.24	0.000005	0.09	35.27	47.92	0.02
T2	1671.73	10 Year	DonPhaseII_Final_Proposed	1.60	211.62	213.32	1.62	213.32	0.000008	0.11	39.25	49.12	0.03
T2	1671.73	2 Year	DonPhaseII_Final_Baseline	0.56	211.62	212.91	1.21	212.91	0.000004	0.07	21.01	34.88	0.02
T2	1671.73	5 Year	DonPhaseII_Final_Proposed	1.15	211.62	213.24	1.54	213.24	0.000005	0.09	35.27	47.92	0.02
T2	1671.73	2 Year	DonPhaseII_Final_Proposed	0.56	211.62	212.91	1.21	212.91	0.000004	0.07	21.01	34.88	0.02
T2	1665.95			Inl Struct									
T2	1656.08	Regional	DonPhaseII_Final_Baseline	47.47	210.87	213.09	2.16	213.38	0.005367	3.48	43.31	59.17	0.76

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	1656.08	Regional	DonPhaseII_Final_Proposed	47.47	210.87	213.09	2.16	213.38	0.005367	3.48	43.31	59.17	0.76
T2	1656.08	350 Year	DonPhaseII_Final_Baseline	6.08	210.87	211.66	0.73	211.95	0.012064	2.54	3.32	6.86	0.95
T2	1656.08	350 Year	DonPhaseII_Final_Proposed	6.08	210.87	211.66	0.73	211.95	0.012064	2.54	3.32	6.86	0.95
T2	1656.08	100 Year	DonPhaseII_Final_Baseline	3.62	210.87	211.46	0.54	211.69	0.013409	2.17	2.10	5.48	0.95
T2	1656.08	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	210.87	211.55	0.63	211.81	0.012803	2.36	2.63	6.12	0.95
T2	1656.08	50 Year	DonPhaseII_Final_Baseline	2.91	210.87	211.42	0.50	211.60	0.011483	1.90	1.88	5.21	0.86
T2	1656.08	100 Year	DonPhaseII_Final_Proposed	3.62	210.87	211.46	0.54	211.69	0.013409	2.17	2.10	5.48	0.95
T2	1656.08	25 Year	DonPhaseII_Final_Baseline	2.22	210.87	211.37	0.45	211.50	0.009673	1.63	1.63	4.90	0.78
T2	1656.08	50 Year	DonPhaseII_Final_Proposed	2.91	210.87	211.42	0.50	211.60	0.011483	1.90	1.88	5.21	0.86
T2	1656.08	10 Year	DonPhaseII_Final_Baseline	1.60	210.87	211.32	0.39	211.41	0.008191	1.37	1.36	4.53	0.70
T2	1656.08	25 Year	DonPhaseII_Final_Proposed	2.22	210.87	211.37	0.45	211.50	0.009673	1.63	1.63	4.90	0.78
T2	1656.08	5 Year	DonPhaseII_Final_Baseline	1.15	210.87	211.26	0.34	211.33	0.007007	1.15	1.13	4.22	0.63
T2	1656.08	10 Year	DonPhaseII_Final_Proposed	1.60	210.87	211.32	0.39	211.41	0.008191	1.37	1.36	4.53	0.70
T2	1656.08	2 Year	DonPhaseII_Final_Baseline	0.56	210.87	211.17	0.25	211.20	0.004829	0.78	0.78	3.71	0.50
T2	1656.08	5 Year	DonPhaseII_Final_Proposed	1.15	210.87	211.26	0.34	211.33	0.007007	1.15	1.13	4.22	0.63
T2	1656.08	2 Year	DonPhaseII_Final_Proposed	0.56	210.87	211.17	0.25	211.20	0.004829	0.78	0.78	3.71	0.50
T2	1642.43	Regional	DonPhaseII_Final_Baseline	48.12	210.82	212.11	1.22	212.27	0.016050	2.30	32.68	47.07	0.67
T2	1642.43	Regional	DonPhaseII_Final_Proposed	48.12	210.82	212.11	1.22	212.27	0.016050	2.30	32.68	47.07	0.67
T2	1642.43	350 Year	DonPhaseII_Final_Baseline	6.27	210.82	211.40	0.50	211.49	0.022137	1.45	5.13	19.58	0.65
T2	1642.43	350 Year	DonPhaseII_Final_Proposed	6.27	210.82	211.40	0.50	211.49	0.022137	1.45	5.13	19.58	0.65
T2	1642.43	100 Year	DonPhaseII_Final_Baseline	3.65	210.82	211.19	0.30	211.31	0.052548	1.53	2.52	9.89	0.89
T2	1642.43	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	210.82	211.29	0.39	211.39	0.032886	1.47	3.50	11.17	0.75
T2	1642.43	50 Year	DonPhaseII_Final_Baseline	2.93	210.82	211.14	0.25	211.25	0.064311	1.48	2.05	9.21	0.95
T2	1642.43	100 Year	DonPhaseII_Final_Proposed	3.65	210.82	211.19	0.30	211.31	0.052548	1.53	2.52	9.89	0.89
T2	1642.43	25 Year	DonPhaseII_Final_Baseline	2.22	210.82	211.10	0.20	211.19	0.079142	1.40	1.62	8.68	1.00
T2	1642.43	50 Year	DonPhaseII_Final_Proposed	2.93	210.82	211.14	0.25	211.25	0.064311	1.48	2.05	9.21	0.95
T2	1642.43	10 Year	DonPhaseII_Final_Baseline	1.60	210.82	211.06	0.16	211.14	0.087836	1.26	1.29	8.22	1.00
T2	1642.43	25 Year	DonPhaseII_Final_Proposed	2.22	210.82	211.10	0.20	211.19	0.079142	1.40	1.62	8.68	1.00
T2	1642.43	5 Year	DonPhaseII_Final_Baseline	1.15	210.82	211.02	0.14	211.09	0.096549	1.14	1.02	7.79	0.99
T2	1642.43	10 Year	DonPhaseII_Final_Proposed	1.60	210.82	211.06	0.16	211.14	0.087836	1.26	1.29	8.22	1.00
T2	1642.43	2 Year	DonPhaseII_Final_Baseline	0.57	210.82	210.97	0.09	211.01	0.118702	0.92	0.62	7.12	0.99
T2	1642.43	5 Year	DonPhaseII_Final_Proposed	1.15	210.82	211.02	0.14	211.09	0.096549	1.14	1.02	7.79	0.99
T2	1642.43	2 Year	DonPhaseII_Final_Proposed	0.57	210.82	210.97	0.09	211.01	0.118702	0.92	0.62	7.12	0.99
T2	1602.1	Regional	DonPhaseII_Final_Baseline	48.12	210.10	211.64	1.46	211.85	0.007797	3.22	41.05	58.45	0.85
T2	1602.1	Regional	DonPhaseII_Final_Proposed	48.12	210.10	211.64	1.46	211.85	0.007797	3.22	41.05	58.45	0.85
T2	1602.1	350 Year	DonPhaseII_Final_Baseline	6.27	210.10	210.84	0.66	210.99	0.008231	1.96	5.78	24.06	0.77
T2	1602.1	350 Year	DonPhaseII_Final_Proposed	6.27	210.10	210.84	0.66	210.99	0.008231	1.96	5.78	24.06	0.77
T2	1602.1	100 Year	DonPhaseII_Final_Baseline	3.65	210.10	210.71	0.54	210.79	0.005626	1.41	3.83	9.14	0.61
T2	1602.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	210.10	210.79	0.62	210.90	0.006376	1.64	4.80	17.77	0.67
T2	1602.1	50 Year	DonPhaseII_Final_Baseline	2.93	210.10	210.65	0.48	210.72	0.005492	1.28	3.30	8.52	0.59
T2	1602.1	100 Year	DonPhaseII_Final_Proposed	3.65	210.10	210.71	0.54	210.79	0.005626	1.41	3.83	9.14	0.61
T2	1602.1	25 Year	DonPhaseII_Final_Baseline	2.22	210.10	210.58	0.41	210.64	0.005329	1.14	2.74	7.92	0.57
T2	1602.1	50 Year	DonPhaseII_Final_Proposed	2.93	210.10	210.65	0.48	210.72	0.005492	1.28	3.30	8.52	0.59
T2	1602.1	10 Year	DonPhaseII_Final_Baseline	1.60	210.10	210.51	0.34	210.55	0.005281	1.00	2.20	7.38	0.55
T2	1602.1	25 Year	DonPhaseII_Final_Proposed	2.22	210.10	210.58	0.41	210.64	0.005329	1.14	2.74	7.92	0.57
T2	1602.1	5 Year	DonPhaseII_Final_Baseline	1.15	210.10	210.45	0.28	210.48	0.005319	0.89	1.76	6.90	0.53
T2	1602.1	10 Year	DonPhaseII_Final_Proposed	1.60	210.10	210.51	0.34	210.55	0.005281	1.00	2.20	7.38	0.55
T2	1602.1	2 Year	DonPhaseII_Final_Baseline	0.57	210.10	210.35	0.20	210.37	0.004707	0.68	1.13	6.13	0.48
T2	1602.1	5 Year	DonPhaseII_Final_Proposed	1.15	210.10	210.45	0.28	210.48	0.005319	0.89	1.76	6.90	0.53
T2	1602.1	2 Year	DonPhaseII_Final_Proposed	0.57	210.10	210.35	0.20	210.37	0.004707	0.68	1.13	6.13	0.48
T2	1551.77	Regional	DonPhaseII_Final_Baseline	48.12	209.67	211.21	1.48	211.49	0.008802	3.47	35.50	51.75	0.91
T2	1551.77	Regional	DonPhaseII_Final_Proposed	48.12	209.67	211.21	1.48	211.49	0.008802	3.47	35.50	51.75	0.91
T2	1551.77	350 Year	DonPhaseII_Final_Baseline	6.27	209.67	210.40	0.67	210.58	0.008707	2.03	5.09	17.78	0.79
T2	1551.77	350 Year	DonPhaseII_Final_Proposed	6.27	209.67	210.40	0.67	210.58	0.008707	2.03	5.09	17.78	0.79
T2	1551.77	100 Year	DonPhaseII_Final_Baseline	3.65	209.67	210.17	0.45	210.36	0.014268	1.98	2.20	7.46	0.95
T2	1551.77	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	209.67	210.25	0.53	210.47	0.012815	2.11	2.95	11.03	0.93
T2	1551.77	50 Year	DonPhaseII_Final_Baseline	2.93	209.67	210.11	0.38	210.28	0.015437	1.87	1.78	6.20	0.96
T2	1551.77	100 Year	DonPhaseII_Final_Proposed	3.65	209.67	210.17	0.45	210.36	0.014268	1.98	2.20	7.46	0.95
T2	1551.77	25 Year	DonPhaseII_Final_Baseline	2.22	209.67	210.04	0.32	210.19	0.017416	1.74	1.39	5.33	0.99
T2	1551.77	50 Year	DonPhaseII_Final_Proposed	2.93	209.67	210.11	0.38	210.28	0.015437	1.87	1.78	6.20	0.96
T2	1551.77	10 Year	DonPhaseII_Final_Baseline	1.60	209.67	209.98	0.26	210.10	0.018449	1.56	1.09	4.93	0.98
T2	1551.77	25 Year	DonPhaseII_Final_Proposed	2.22	209.67	210.04	0.32	210.19	0.017416	1.74	1.39	5.33	0.99
T2	1551.77	5 Year	DonPhaseII_Final_Baseline	1.15	209.67	209.94	0.21	210.03	0.018558	1.37	0.87	4.63	0.96
T2	1551.77	10 Year	DonPhaseII_Final_Proposed	1.60	209.67	209.98	0.26	210.10	0.018449	1.56	1.09	4.93	0.98
T2	1551.77	2 Year	DonPhaseII_Final_Baseline	0.57	209.67	209.85	0.13	209.92	0.024228	1.13	0.51	4.10	1.00
T2	1551.77	5 Year	DonPhaseII_Final_Proposed	1.15	209.67	209.94	0.21	210.03	0.018558	1.37	0.87	4.63	0.96
T2	1551.77	2 Year	DonPhaseII_Final_Proposed	0.57	209.67	209.85	0.13	209.92	0.024228	1.13	0.51	4.10	1.00
T2	1500.59	Regional	DonPhaseII_Final_Baseline	48.12	209.27	210.95	1.53	211.05	0.003183	2.11	49.62	47.50	0.54
T2	1500.59	Regional	DonPhaseII_Final_Proposed	48.12	209.27	210.95	1.53	211.05	0.003183	2.11	49.62	47.50	0.54
T2	1500.59	350 Year	DonPhaseII_Final_Baseline	6.27	209.27	210.45	1.03	210.46	0.000289	0.49	27.91	41.77	0.15
T2	1500.59	350 Year	DonPhaseII_Final_Proposed	6.27	209.27	210.45	1.03	210.46	0.000289	0.49	27.91	41.77	0.15
T2	1500.59	100 Year	DonPhaseII_Final_Baseline	3.65	209.27	210.12	0.70	210.13	0.000628	0.56	14.24	40.04	0.21
T2	1500.59	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	209.27	210.27	0.84	210.28	0.000417	0.51	20.19	40.90	0.18
T2	1500.59	50 Year	DonPhaseII_Final_Baseline	2.93	209.27	210.02	0.60	210.04	0.000887	0.60	10.32	39.37	0.25
T2	1500.59	100 Year	DonPhaseII_Final_Proposed	3.65	209.27	210.12	0.70	210.13	0.000628	0.56	14.24	40.04	0.21
T2	1500.59	25 Year	DonPhaseII_Final_Baseline	2.22	209.27	209.92	0.50	209.94	0.001336	0.65	6.45	38.31	0.29
T2	1500.59	50 Year	DonPhaseII_Final_Proposed	2.93	209.27	210.02	0.60	210.04	0.000887	0.60	10.32	39.37	0.25
T2	1500.59	10 Year	DonPhaseII_Final_Baseline	1.60	209.27	209.83	0.41	209.85	0.001889	0.67	3.16	28.83	0.34
T2	1500.59	25 Year	DonPhaseII_Final_Proposed	2.22	209.27	209.92	0.50	209.94	0.001336	0.65	6.45	38.31	0.29
T2	1500.59	5 Year	DonPhaseII_Final_Baseline	1.15	209.27	209.74	0.34	209.76	0.002168	0.63	1.82	5.66	0.35
T2	1500.59	10 Year	DonPhaseII_Final_Proposed	1.60	209.27	209.83	0.41	209.85	0.001889	0.67	3.16	28.83	0.34
T2	1500.59	2 Year	DonPhaseII_Final_Baseline	0.57	209.27	209.59	0.23	209.61	0.002567	0.54	1.05	4.53	0.36
T2	1500.59	5 Year	DonPhaseII_Final_Proposed	1.15	209.27	209.74	0.34	209.76	0.002168	0.63	1.82	5.66	0.35
T2	1500.59	2 Year	DonPhaseII_Final_Proposed	0.57	209.27	209.59	0.23	209.61	0.002567	0.54	1.05	4.53	0.36
T2	1454.82	Regional	DonPhaseII_Final_Baseline	48.12	208.93	210.50	1.46	210.78	0.013851	4.24	34.52	47.48	1.12
T2	1454.82	Regional	DonPhaseII_Final_Proposed	48.12	208.93	210.50	1.46	210.78	0.013851	4.24	34.52	47.48	1.12
T2	1454.82	350 Year	DonPhaseII_Final_Baseline	6.27	208.93	210.01	0.96	210.39	0.011348	2.91	3.14	41.29	0.95
T2	1454.82	350 Year	DonPhaseII_Final_Proposed	6.27	208.93	210.01	0.96	210.39	0.011348	2.91	3.14	41.29	0.95
T2	1454.82	100 Year	DonPhaseII_Final_Baseline	3.65	208.93	209.74	0.69	210.03	0.012770	2.48	1.94	20.56	0.95
T2	1454.82	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	208.93	209.86	0.81	210.19	0.012196	2.69	2.43	38.53	0.95
T2	1454.82	50 Year	DonPhaseII_Final_Baseline	2.93	208.93	209.65	0.60	209.91	0.013515	2.33	1.59	3.94	0.96
T2	1454.82	100 Year	DonPhaseII_Final_Proposed	3.65	208.93	209.74	0.69	210.03	0.012770	2.48	1.94	20.56	0.95

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	1454.82	25 Year	DonPhaseII_Final_Baseline	2.22	208.93	209.56	0.51	209.78	0.014437	2.14	1.25	3.35	0.96
T2	1454.82	50 Year	DonPhaseII_Final_Proposed	2.93	208.93	209.65	0.60	209.91	0.013515	2.33	1.59	3.94	0.96
T2	1454.82	10 Year	DonPhaseII_Final_Baseline	1.60	208.93	209.46	0.41	209.64	0.015380	1.93	0.96	3.00	0.96
T2	1454.82	25 Year	DonPhaseII_Final_Proposed	2.22	208.93	209.56	0.51	209.78	0.014437	2.14	1.25	3.35	0.96
T2	1454.82	5 Year	DonPhaseII_Final_Baseline	1.15	208.93	209.38	0.33	209.53	0.017031	1.76	0.72	2.70	0.97
T2	1454.82	10 Year	DonPhaseII_Final_Proposed	1.60	208.93	209.46	0.41	209.64	0.015380	1.93	0.96	3.00	0.96
T2	1454.82	2 Year	DonPhaseII_Final_Baseline	0.57	208.93	209.27	0.22	209.36	0.016397	1.32	0.45	2.30	0.89
T2	1454.82	5 Year	DonPhaseII_Final_Proposed	1.15	208.93	209.38	0.33	209.53	0.017031	1.76	0.72	2.70	0.97
T2	1454.82	2 Year	DonPhaseII_Final_Proposed	0.57	208.93	209.27	0.22	209.36	0.016397	1.32	0.45	2.30	0.89
T2	1400.08	Regional	DonPhaseII_Final_Baseline	48.12	208.29	209.97	1.59	210.10	0.002458	1.83	43.56	48.52	0.46
T2	1400.08	Regional	DonPhaseII_Final_Proposed	48.12	208.29	209.97	1.59	210.10	0.002458	1.83	43.56	48.52	0.46
T2	1400.08	350 Year	DonPhaseII_Final_Baseline	6.27	208.29	208.74	0.36	208.85	0.010102	1.44	4.39	12.74	0.77
T2	1400.08	350 Year	DonPhaseII_Final_Proposed	6.27	208.29	208.74	0.36	208.85	0.010102	1.44	4.39	12.74	0.77
T2	1400.08	100 Year	DonPhaseII_Final_Baseline	3.65	208.29	208.61	0.24	208.70	0.013420	1.30	2.82	11.81	0.84
T2	1400.08	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	208.29	208.67	0.29	208.76	0.012036	1.38	3.46	12.24	0.82
T2	1400.08	50 Year	DonPhaseII_Final_Baseline	2.93	208.29	208.58	0.21	208.65	0.014165	1.22	2.41	11.52	0.85
T2	1400.08	100 Year	DonPhaseII_Final_Proposed	3.65	208.29	208.61	0.24	208.70	0.013420	1.30	2.82	11.81	0.84
T2	1400.08	25 Year	DonPhaseII_Final_Baseline	2.22	208.29	208.54	0.18	208.60	0.015173	1.13	1.97	11.21	0.86
T2	1400.08	50 Year	DonPhaseII_Final_Proposed	2.93	208.29	208.58	0.21	208.65	0.014165	1.22	2.41	11.52	0.85
T2	1400.08	10 Year	DonPhaseII_Final_Baseline	1.60	208.29	208.50	0.15	208.56	0.015728	1.01	1.58	10.81	0.85
T2	1400.08	25 Year	DonPhaseII_Final_Proposed	2.22	208.29	208.54	0.18	208.60	0.015173	1.13	1.97	11.21	0.86
T2	1400.08	5 Year	DonPhaseII_Final_Baseline	1.15	208.29	208.48	0.12	208.52	0.015905	0.90	1.27	10.46	0.83
T2	1400.08	10 Year	DonPhaseII_Final_Proposed	1.60	208.29	208.50	0.15	208.56	0.015728	1.01	1.58	10.81	0.85
T2	1400.08	2 Year	DonPhaseII_Final_Baseline	0.57	208.29	208.43	0.08	208.46	0.016021	0.70	0.82	9.90	0.78
T2	1400.08	5 Year	DonPhaseII_Final_Proposed	1.15	208.29	208.48	0.12	208.52	0.015905	0.90	1.27	10.46	0.83
T2	1400.08	2 Year	DonPhaseII_Final_Proposed	0.57	208.29	208.43	0.08	208.46	0.016021	0.70	0.82	9.90	0.78
T2	1346.85	Regional	DonPhaseII_Final_Baseline	48.12	207.16	209.47	2.24	209.88	0.005832	3.70	32.71	37.62	0.79
T2	1346.85	Regional	DonPhaseII_Final_Proposed	48.12	207.16	209.47	2.24	209.88	0.005832	3.70	32.71	37.62	0.79
T2	1346.85	350 Year	DonPhaseII_Final_Baseline	6.27	207.16	207.91	0.67	208.20	0.013635	2.54	3.28	6.87	0.99
T2	1346.85	350 Year	DonPhaseII_Final_Proposed	6.27	207.16	207.91	0.67	208.20	0.013635	2.54	3.28	6.87	0.99
T2	1346.85	100 Year	DonPhaseII_Final_Baseline	3.65	207.16	207.72	0.48	207.93	0.014769	2.13	2.11	5.72	0.98
T2	1346.85	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	207.16	207.80	0.57	208.05	0.013979	2.31	2.62	6.23	0.98
T2	1346.85	50 Year	DonPhaseII_Final_Baseline	2.93	207.16	207.65	0.42	207.84	0.015698	1.99	1.75	5.34	0.98
T2	1346.85	100 Year	DonPhaseII_Final_Proposed	3.65	207.16	207.72	0.48	207.93	0.014769	2.13	2.11	5.72	0.98
T2	1346.85	25 Year	DonPhaseII_Final_Baseline	2.22	207.16	207.59	0.35	207.75	0.016572	1.82	1.41	4.96	0.98
T2	1346.85	50 Year	DonPhaseII_Final_Proposed	2.93	207.16	207.65	0.42	207.84	0.015698	1.99	1.75	5.34	0.98
T2	1346.85	10 Year	DonPhaseII_Final_Baseline	1.60	207.16	207.52	0.29	207.65	0.017956	1.65	1.09	4.58	0.98
T2	1346.85	25 Year	DonPhaseII_Final_Proposed	2.22	207.16	207.59	0.35	207.75	0.016572	1.82	1.41	4.96	0.98
T2	1346.85	5 Year	DonPhaseII_Final_Baseline	1.15	207.16	207.46	0.23	207.57	0.019416	1.48	0.84	4.27	0.99
T2	1346.85	10 Year	DonPhaseII_Final_Proposed	1.60	207.16	207.52	0.29	207.65	0.017956	1.65	1.09	4.58	0.98
T2	1346.85	2 Year	DonPhaseII_Final_Baseline	0.57	207.16	207.37	0.15	207.45	0.022327	1.21	0.49	3.55	0.99
T2	1346.85	5 Year	DonPhaseII_Final_Proposed	1.15	207.16	207.46	0.23	207.57	0.019416	1.48	0.84	4.27	0.99
T2	1346.85	2 Year	DonPhaseII_Final_Proposed	0.57	207.16	207.37	0.15	207.45	0.022327	1.21	0.49	3.55	0.99
T2	1300	Regional	DonPhaseII_Final_Baseline	48.12	206.65	208.90	2.21	209.47	0.008001	4.33	25.64	22.12	0.93
T2	1300	Regional	DonPhaseII_Final_Proposed	48.12	206.65	208.90	2.21	209.47	0.008001	4.33	25.64	22.12	0.93
T2	1300	350 Year	DonPhaseII_Final_Baseline	6.27	206.65	207.65	0.96	207.80	0.004508	1.86	5.25	8.42	0.61
T2	1300	350 Year	DonPhaseII_Final_Proposed	6.27	206.65	207.65	0.96	207.80	0.004508	1.86	5.25	8.42	0.61
T2	1300	100 Year	DonPhaseII_Final_Baseline	3.65	206.65	207.45	0.75	207.54	0.003714	1.44	3.66	6.86	0.53
T2	1300	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.65	207.52	0.83	207.64	0.004478	1.68	4.18	7.31	0.59
T2	1300	50 Year	DonPhaseII_Final_Baseline	2.93	206.65	207.38	0.69	207.45	0.003291	1.28	3.24	6.55	0.49
T2	1300	100 Year	DonPhaseII_Final_Proposed	3.65	206.65	207.45	0.75	207.54	0.003714	1.44	3.66	6.86	0.53
T2	1300	25 Year	DonPhaseII_Final_Baseline	2.22	206.65	207.30	0.61	207.36	0.002975	1.12	2.73	6.15	0.46
T2	1300	50 Year	DonPhaseII_Final_Proposed	2.93	206.65	207.38	0.69	207.45	0.003291	1.28	3.24	6.55	0.49
T2	1300	10 Year	DonPhaseII_Final_Baseline	1.60	206.65	207.20	0.50	207.24	0.003027	0.99	2.12	5.65	0.45
T2	1300	25 Year	DonPhaseII_Final_Proposed	2.22	206.65	207.30	0.61	207.36	0.002975	1.12	2.73	6.15	0.46
T2	1300	5 Year	DonPhaseII_Final_Baseline	1.15	206.65	207.12	0.42	207.15	0.002908	0.87	1.68	5.24	0.43
T2	1300	10 Year	DonPhaseII_Final_Proposed	1.60	206.65	207.20	0.50	207.24	0.003027	0.99	2.12	5.65	0.45
T2	1300	2 Year	DonPhaseII_Final_Baseline	0.57	206.65	206.98	0.29	207.00	0.002724	0.65	1.03	4.51	0.39
T2	1300	5 Year	DonPhaseII_Final_Proposed	1.15	206.65	207.12	0.42	207.15	0.002908	0.87	1.68	5.24	0.43
T2	1300	2 Year	DonPhaseII_Final_Proposed	0.57	206.65	206.98	0.29	207.00	0.002724	0.65	1.03	4.51	0.39
T2	1253.25	Regional	DonPhaseII_Final_Baseline	48.12	206.40	209.07	2.63	209.18	0.002160	2.52	56.93	45.56	0.50
T2	1253.25	Regional	DonPhaseII_Final_Proposed	48.12	206.40	209.07	2.63	209.18	0.002160	2.52	56.93	45.56	0.50
T2	1253.25	350 Year	DonPhaseII_Final_Baseline	6.27	206.40	207.61	1.17	207.66	0.001879	1.37	11.55	20.24	0.40
T2	1253.25	350 Year	DonPhaseII_Final_Proposed	6.27	206.40	207.61	1.17	207.66	0.001879	1.37	11.55	20.24	0.40
T2	1253.25	100 Year	DonPhaseII_Final_Baseline	3.65	206.40	207.11	0.67	207.28	0.009568	2.12	3.15	9.16	0.83
T2	1253.25	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.40	207.30	0.86	207.43	0.005501	1.91	5.75	17.49	0.66
T2	1253.25	50 Year	DonPhaseII_Final_Baseline	2.93	206.40	207.00	0.56	207.19	0.012318	2.15	2.29	7.39	0.92
T2	1253.25	100 Year	DonPhaseII_Final_Proposed	3.65	206.40	207.11	0.67	207.28	0.009568	2.12	3.15	9.16	0.83
T2	1253.25	25 Year	DonPhaseII_Final_Baseline	2.22	206.40	206.90	0.45	207.09	0.015646	2.11	1.59	5.63	1.00
T2	1253.25	50 Year	DonPhaseII_Final_Proposed	2.93	206.40	207.00	0.56	207.19	0.012318	2.15	2.29	7.39	0.92
T2	1253.25	10 Year	DonPhaseII_Final_Baseline	1.60	206.40	206.82	0.38	206.97	0.015240	1.85	1.22	4.63	0.96
T2	1253.25	25 Year	DonPhaseII_Final_Proposed	2.22	206.40	206.90	0.45	207.09	0.015646	2.11	1.59	5.63	1.00
T2	1253.25	5 Year	DonPhaseII_Final_Baseline	1.15	206.40	206.75	0.31	206.88	0.016918	1.69	0.91	4.08	0.97
T2	1253.25	10 Year	DonPhaseII_Final_Proposed	1.60	206.40	206.82	0.38	206.97	0.015240	1.85	1.22	4.63	0.96
T2	1253.25	2 Year	DonPhaseII_Final_Baseline	0.57	206.40	206.64	0.20	206.73	0.020087	1.37	0.50	3.23	0.98
T2	1253.25	5 Year	DonPhaseII_Final_Proposed	1.15	206.40	206.75	0.31	206.88	0.016918	1.69	0.91	4.08	0.97
T2	1253.25	2 Year	DonPhaseII_Final_Proposed	0.57	206.40	206.64	0.20	206.73	0.020087	1.37	0.50	3.23	0.98
T2	1248.17	Regional	DonPhaseII_Final_Baseline	48.12	206.28	208.97	2.62	209.15	0.002465	2.69	52.02	51.73	0.53
T2	1248.17	Regional	DonPhaseII_Final_Proposed	48.12	206.28	208.97	2.62	209.15	0.002465	2.69	52.02	51.73	0.53
T2	1248.17	350 Year	DonPhaseII_Final_Baseline	6.27	206.28	207.59	1.23	207.65	0.001435	1.24	7.47	15.33	0.36
T2	1248.17	350 Year	DonPhaseII_Final_Proposed	6.27	206.28	207.59	1.23	207.65	0.001435	1.24	7.47	15.33	0.36
T2	1248.17	100 Year	DonPhaseII_Final_Baseline	3.65	206.28	207.14	0.79	207.20	0.002486	1.21	4.39	9.83	0.44
T2	1248.17	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.28	207.32	0.96	207.38	0.002001	1.24	5.61	11.20	0.40
T2	1248.17	50 Year	DonPhaseII_Final_Baseline	2.93	206.28	207.04	0.68	207.09	0.002803	1.16	3.63	8.75	0.45
T2	1248.17	100 Year	DonPhaseII_Final_Proposed	3.65	206.28	207.14	0.79	207.20	0.002486	1.21	4.39	9.83	0.44
T2	1248.17	25 Year	DonPhaseII_Final_Baseline	2.22	206.28	206.93	0.57	206.98	0.003137	1.10	2.87	7.75	0.46
T2	1248.17	50 Year	DonPhaseII_Final_Proposed	2.93	206.28	207.04	0.68	207.09	0.002803	1.16	3.63	8.75	0.45
T2	1248.17	10 Year	DonPhaseII_Final_Baseline	1.60	206.28	206.83	0.47	206.87	0.003229	0.98	2.22	6.95	0.46
T2	1248.17	25 Year	DonPhaseII_Final_Proposed	2.22	206.28	206.93	0.57	206.98	0.003137	1.10	2.87	7.75	0.46
T2	1248.17	5 Year	DonPhaseII_Final_Baseline	1.15	206.28	206.76	0.40	206.79	0.003170	0.87	1.74	6.31	0.44
T2	1248.17	10 Year	DonPhaseII_Final_Proposed	1.60	206.28	206.83	0.47	206.87	0.003229	0.98	2.22	6.95	0.46
T2	1248.17	2 Year	DonPhaseII_Final_Baseline	0.57	206.28	206.62	0.26	206.64	0.003400	0.68	0.98	4.90	0.42

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	1248.17	5 Year	DonPhaseII_Final_Proposed	1.15	206.28	206.76	0.40	206.79	0.003170	0.87	1.74	6.31	0.44
T2	1248.17	2 Year	DonPhaseII_Final_Proposed	0.57	206.28	206.62	0.26	206.64	0.003400	0.68	0.98	4.90	0.42
T2	1238.77			Culvert									
T2	1230.24	Regional	DonPhaseII_Final_Baseline	48.12	206.27	208.39	2.12	208.67	0.006318	3.74	33.59	50.14	0.82
T2	1230.24	Regional	DonPhaseII_Final_Proposed	48.12	206.27	208.39	2.12	208.67	0.006318	3.74	33.59	50.14	0.82
T2	1230.24	350 Year	DonPhaseII_Final_Baseline	6.27	206.27	207.09	0.82	207.18	0.004194	1.62	5.31	9.96	0.57
T2	1230.24	350 Year	DonPhaseII_Final_Proposed	6.27	206.27	207.09	0.82	207.18	0.004194	1.62	5.31	9.96	0.57
T2	1230.24	100 Year	DonPhaseII_Final_Baseline	3.65	206.27	206.96	0.68	207.01	0.002794	1.17	4.31	9.42	0.45
T2	1230.24	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.27	207.01	0.74	207.08	0.003537	1.39	4.71	9.64	0.52
T2	1230.24	50 Year	DonPhaseII_Final_Baseline	2.93	206.27	206.92	0.64	206.95	0.002313	1.02	3.98	9.25	0.41
T2	1230.24	100 Year	DonPhaseII_Final_Proposed	3.65	206.27	206.96	0.68	207.01	0.002794	1.17	4.31	9.42	0.45
T2	1230.24	25 Year	DonPhaseII_Final_Baseline	2.22	206.27	206.86	0.59	206.89	0.001903	0.87	3.55	9.01	0.36
T2	1230.24	50 Year	DonPhaseII_Final_Proposed	2.93	206.27	206.92	0.64	206.95	0.002313	1.02	3.98	9.25	0.41
T2	1230.24	10 Year	DonPhaseII_Final_Baseline	1.60	206.27	206.80	0.53	206.82	0.001498	0.72	3.11	8.65	0.32
T2	1230.24	25 Year	DonPhaseII_Final_Proposed	2.22	206.27	206.86	0.59	206.89	0.001903	0.87	3.55	9.01	0.36
T2	1230.24	5 Year	DonPhaseII_Final_Baseline	1.15	206.27	206.75	0.47	206.76	0.001135	0.59	2.72	8.14	0.27
T2	1230.24	10 Year	DonPhaseII_Final_Proposed	1.60	206.27	206.80	0.53	206.82	0.001498	0.72	3.11	8.65	0.32
T2	1230.24	2 Year	DonPhaseII_Final_Baseline	0.57	206.27	206.63	0.35	206.63	0.000801	0.40	1.90	7.14	0.22
T2	1230.24	5 Year	DonPhaseII_Final_Proposed	1.15	206.27	206.75	0.47	206.76	0.001135	0.59	2.72	8.14	0.27
T2	1230.24	2 Year	DonPhaseII_Final_Proposed	0.57	206.27	206.63	0.35	206.63	0.000801	0.40	1.90	7.14	0.22
T2	1221.72	Regional	DonPhaseII_Final_Baseline	48.12	206.28	208.37	2.01	208.45	0.002318	2.18	55.37	60.80	0.49
T2	1221.72	Regional	DonPhaseII_Final_Proposed	48.12	206.28	208.37	2.01	208.45	0.002318	2.18	55.37	60.80	0.49
T2	1221.72	350 Year	DonPhaseII_Final_Baseline	6.27	206.28	207.08	0.72	207.14	0.004183	1.48	9.86	26.96	0.56
T2	1221.72	350 Year	DonPhaseII_Final_Proposed	6.27	206.28	207.08	0.72	207.14	0.004183	1.48	9.86	26.96	0.56
T2	1221.72	100 Year	DonPhaseII_Final_Baseline	3.65	206.28	206.83	0.47	206.95	0.010984	1.81	4.02	17.33	0.84
T2	1221.72	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.28	206.88	0.53	207.01	0.011445	1.98	4.94	18.50	0.87
T2	1221.72	50 Year	DonPhaseII_Final_Baseline	2.93	206.28	206.79	0.43	206.90	0.010752	1.69	3.33	16.66	0.82
T2	1221.72	100 Year	DonPhaseII_Final_Proposed	3.65	206.28	206.83	0.47	206.95	0.010984	1.81	4.02	17.33	0.84
T2	1221.72	25 Year	DonPhaseII_Final_Baseline	2.22	206.28	206.76	0.40	206.84	0.008788	1.45	2.82	16.14	0.73
T2	1221.72	50 Year	DonPhaseII_Final_Proposed	2.93	206.28	206.79	0.43	206.90	0.010752	1.69	3.33	16.66	0.82
T2	1221.72	10 Year	DonPhaseII_Final_Baseline	1.60	206.28	206.72	0.37	206.78	0.006975	1.22	2.26	15.41	0.64
T2	1221.72	25 Year	DonPhaseII_Final_Proposed	2.22	206.28	206.76	0.40	206.84	0.008788	1.45	2.82	16.14	0.73
T2	1221.72	5 Year	DonPhaseII_Final_Baseline	1.15	206.28	206.68	0.33	206.73	0.005846	1.04	1.71	14.70	0.58
T2	1221.72	10 Year	DonPhaseII_Final_Proposed	1.60	206.28	206.72	0.37	206.78	0.006975	1.22	2.26	15.41	0.64
T2	1221.72	2 Year	DonPhaseII_Final_Baseline	0.57	206.28	206.58	0.23	206.61	0.005552	0.79	0.84	5.00	0.53
T2	1221.72	5 Year	DonPhaseII_Final_Proposed	1.15	206.28	206.68	0.33	206.73	0.005846	1.04	1.71	14.70	0.58
T2	1221.72	2 Year	DonPhaseII_Final_Proposed	0.57	206.28	206.58	0.23	206.61	0.005552	0.79	0.84	5.00	0.53
T2	1192.26	Regional	DonPhaseII_Final_Baseline	48.12	206.04	208.39	2.34	208.40	0.000503	1.13	113.02	95.12	0.24
T2	1192.26	Regional	DonPhaseII_Final_Proposed	48.12	206.04	208.39	2.34	208.40	0.000503	1.13	113.02	95.12	0.24
T2	1192.26	350 Year	DonPhaseII_Final_Baseline	6.27	206.04	207.09	1.04	207.09	0.000500	0.65	27.35	47.83	0.21
T2	1192.26	350 Year	DonPhaseII_Final_Proposed	6.27	206.04	207.09	1.04	207.09	0.000500	0.65	27.35	47.83	0.21
T2	1192.26	100 Year	DonPhaseII_Final_Baseline	3.65	206.04	206.79	0.74	206.80	0.001145	0.79	13.98	40.45	0.29
T2	1192.26	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.04	206.85	0.80	206.86	0.001257	0.87	16.45	42.47	0.31
T2	1192.26	50 Year	DonPhaseII_Final_Baseline	2.93	206.04	206.65	0.60	206.68	0.002514	1.02	8.81	37.49	0.42
T2	1192.26	100 Year	DonPhaseII_Final_Proposed	3.65	206.04	206.79	0.74	206.80	0.001145	0.79	13.98	40.45	0.29
T2	1192.26	25 Year	DonPhaseII_Final_Baseline	2.22	206.04	206.49	0.44	206.58	0.010494	1.68	3.32	25.97	0.81
T2	1192.26	50 Year	DonPhaseII_Final_Proposed	2.93	206.04	206.65	0.60	206.68	0.002514	1.02	8.81	37.49	0.42
T2	1192.26	10 Year	DonPhaseII_Final_Baseline	1.60	206.04	206.42	0.37	206.53	0.012343	1.64	1.90	15.75	0.86
T2	1192.26	25 Year	DonPhaseII_Final_Proposed	2.22	206.04	206.49	0.44	206.58	0.010494	1.68	3.32	25.97	0.81
T2	1192.26	5 Year	DonPhaseII_Final_Baseline	1.15	206.04	206.35	0.30	206.46	0.015796	1.61	1.08	7.11	0.94
T2	1192.26	10 Year	DonPhaseII_Final_Proposed	1.60	206.04	206.42	0.37	206.53	0.012343	1.64	1.90	15.75	0.86
T2	1192.26	2 Year	DonPhaseII_Final_Baseline	0.57	206.04	206.24	0.19	206.32	0.019994	1.34	0.56	3.92	0.98
T2	1192.26	5 Year	DonPhaseII_Final_Proposed	1.15	206.04	206.35	0.30	206.46	0.015796	1.61	1.08	7.11	0.94
T2	1192.26	2 Year	DonPhaseII_Final_Proposed	0.57	206.04	206.24	0.19	206.32	0.019994	1.34	0.56	3.92	0.98
T2	1187.83	Regional	DonPhaseII_Final_Baseline	48.12	205.85	208.38	2.51	208.40	0.000607	1.30	106.29	101.98	0.26
T2	1187.83	Regional	DonPhaseII_Final_Proposed	48.12	205.85	208.38	2.51	208.40	0.000607	1.30	106.29	101.98	0.26
T2	1187.83	350 Year	DonPhaseII_Final_Baseline	6.27	205.85	207.01	1.15	207.07	0.002066	1.42	8.30	44.28	0.42
T2	1187.83	350 Year	DonPhaseII_Final_Proposed	6.27	205.85	207.01	1.15	207.07	0.002066	1.42	8.30	44.28	0.42
T2	1187.83	100 Year	DonPhaseII_Final_Baseline	3.65	205.85	206.73	0.87	206.78	0.002159	1.21	5.72	37.10	0.41
T2	1187.83	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	205.85	206.76	0.90	206.83	0.003201	1.50	5.98	38.29	0.51
T2	1187.83	50 Year	DonPhaseII_Final_Baseline	2.93	205.85	206.61	0.75	206.66	0.002660	1.21	4.58	22.20	0.45
T2	1187.83	100 Year	DonPhaseII_Final_Proposed	3.65	205.85	206.73	0.87	206.78	0.002159	1.21	5.72	37.10	0.41
T2	1187.83	25 Year	DonPhaseII_Final_Baseline	2.22	205.85	206.48	0.61	206.53	0.003620	1.24	3.35	14.57	0.51
T2	1187.83	50 Year	DonPhaseII_Final_Proposed	2.93	205.85	206.61	0.75	206.66	0.002660	1.21	4.58	22.20	0.45
T2	1187.83	10 Year	DonPhaseII_Final_Baseline	1.60	205.85	206.32	0.45	206.40	0.006642	1.38	1.98	11.22	0.65
T2	1187.83	25 Year	DonPhaseII_Final_Proposed	2.22	205.85	206.48	0.61	206.53	0.003620	1.24	3.35	14.57	0.51
T2	1187.83	5 Year	DonPhaseII_Final_Baseline	1.15	205.85	206.20	0.34	206.29	0.010775	1.43	1.16	5.36	0.79
T2	1187.83	10 Year	DonPhaseII_Final_Proposed	1.60	205.85	206.32	0.45	206.40	0.006642	1.38	1.98	11.22	0.65
T2	1187.83	2 Year	DonPhaseII_Final_Baseline	0.57	205.85	206.06	0.19	206.14	0.019341	1.33	0.54	3.73	0.97
T2	1187.83	5 Year	DonPhaseII_Final_Proposed	1.15	205.85	206.20	0.34	206.29	0.010775	1.43	1.16	5.36	0.79
T2	1187.83	2 Year	DonPhaseII_Final_Proposed	0.57	205.85	206.06	0.19	206.14	0.019341	1.33	0.54	3.73	0.97
T2	1180.69			Culvert									
T2	1168.24	Regional	DonPhaseII_Final_Baseline	51.01	205.74	207.41	1.62	207.52	0.004135	2.52	38.17	38.21	0.63
T2	1168.24	Regional	DonPhaseII_Final_Proposed	51.01	205.74	207.41	1.62	207.52	0.004135	2.52	38.17	38.21	0.63
T2	1168.24	350 Year	DonPhaseII_Final_Baseline	7.27	205.74	206.66	0.87	206.93	0.012083	2.85	3.87	34.47	0.97
T2	1168.24	350 Year	DonPhaseII_Final_Proposed	7.27	205.74	206.66	0.87	206.93	0.012083	2.85	3.87	34.47	0.97
T2	1168.24	100 Year	DonPhaseII_Final_Baseline	4.03	205.74	206.47	0.68	206.66	0.010905	2.30	2.65	28.66	0.89
T2	1168.24	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	205.74	206.55	0.76	206.77	0.011560	2.54	3.13	32.36	0.93
T2	1168.24	50 Year	DonPhaseII_Final_Baseline	3.16	205.74	206.41	0.62	206.58	0.010403	2.11	2.26	18.77	0.85
T2	1168.24	100 Year	DonPhaseII_Final_Proposed	4.03	205.74	206.47	0.68	206.66	0.010905	2.30	2.65	28.66	0.89
T2	1168.24	25 Year	DonPhaseII_Final_Baseline	2.27	205.74	206.34	0.55	206.48	0.009732	1.87	1.79	11.66	0.81
T2	1168.24	50 Year	DonPhaseII_Final_Proposed	3.16	205.74	206.41	0.62	206.58	0.010403	2.11	2.26	18.77	0.85
T2	1168.24	10 Year	DonPhaseII_Final_Baseline	1.63	205.74	206.20	0.41	206.36	0.014587	1.91	1.12	3.93	0.95
T2	1168.24	25 Year	DonPhaseII_Final_Proposed	2.27	205.74	206.34	0.55	206.48	0.009732	1.87	1.79	11.66	0.81
T2	1168.24	5 Year	DonPhaseII_Final_Baseline	1.18	205.74	206.13	0.34	206.26	0.015613	1.74	0.85	3.50	0.95
T2	1168.24	10 Year	DonPhaseII_Final_Proposed	1.63	205.74	206.20	0.41	206.36	0.014587	1.91	1.12	3.93	0.95
T2	1168.24	2 Year	DonPhaseII_Final_Baseline	0.59	205.74	206.02	0.23	206.11	0.017747	1.41	0.49	2.85	0.94
T2	1168.24	5 Year	DonPhaseII_Final_Proposed	1.18	205.74	206.13	0.34	206.26	0.015613	1.74	0.85	3.50	0.95
T2	1168.24	2 Year	DonPhaseII_Final_Proposed	0.59	205.74	206.02	0.23	206.11	0.017747	1.41	0.49	2.85	0.94

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	1154.21	Regional	DonPhaseII_Final_Baseline	51.01	205.20	206.53	1.29	206.84	0.013129	3.88	25.58	37.12	1.09
T2	1154.21	Regional	DonPhaseII_Final_Proposed	51.01	205.20	206.53	1.29	206.84	0.013129	3.88	25.58	37.12	1.09
T2	1154.21	350 Year	DonPhaseII_Final_Baseline	7.27	205.20	205.98	0.74	206.14	0.008447	2.15	6.56	27.68	0.80
T2	1154.21	350 Year	DonPhaseII_Final_Proposed	7.27	205.20	205.98	0.74	206.14	0.008447	2.15	6.56	27.68	0.80
T2	1154.21	100 Year	DonPhaseII_Final_Baseline	4.03	205.20	205.78	0.54	205.98	0.013648	2.20	2.33	13.47	0.96
T2	1154.21	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	205.20	205.86	0.62	206.10	0.013341	2.40	2.86	18.58	0.97
T2	1154.21	50 Year	DonPhaseII_Final_Baseline	3.16	205.20	205.71	0.47	205.89	0.014038	2.04	1.93	5.63	0.95
T2	1154.21	100 Year	DonPhaseII_Final_Proposed	4.03	205.20	205.78	0.54	205.98	0.013648	2.20	2.33	13.47	0.96
T2	1154.21	25 Year	DonPhaseII_Final_Baseline	2.27	205.20	205.62	0.38	205.78	0.015145	1.85	1.47	5.10	0.96
T2	1154.21	50 Year	DonPhaseII_Final_Proposed	3.16	205.20	205.71	0.47	205.89	0.014038	2.04	1.93	5.63	0.95
T2	1154.21	10 Year	DonPhaseII_Final_Baseline	1.63	205.20	205.55	0.32	205.68	0.016013	1.67	1.14	4.67	0.95
T2	1154.21	25 Year	DonPhaseII_Final_Proposed	2.27	205.20	205.62	0.38	205.78	0.015145	1.85	1.47	5.10	0.96
T2	1154.21	5 Year	DonPhaseII_Final_Baseline	1.18	205.20	205.50	0.26	205.61	0.017011	1.51	0.89	4.31	0.95
T2	1154.21	10 Year	DonPhaseII_Final_Proposed	1.63	205.20	205.55	0.32	205.68	0.016013	1.67	1.14	4.67	0.95
T2	1154.21	2 Year	DonPhaseII_Final_Baseline	0.59	205.20	205.40	0.17	205.48	0.020619	1.24	0.51	3.66	0.97
T2	1154.21	5 Year	DonPhaseII_Final_Proposed	1.18	205.20	205.50	0.26	205.61	0.017011	1.51	0.89	4.31	0.95
T2	1154.21	2 Year	DonPhaseII_Final_Proposed	0.59	205.20	205.40	0.17	205.48	0.020619	1.24	0.51	3.66	0.97
T2	1109.12	Regional	DonPhaseII_Final_Baseline	51.01	204.65	205.93	1.23	206.22	0.012144	3.60	28.32	42.92	1.04
T2	1109.12	Regional	DonPhaseII_Final_Proposed	51.01	204.65	205.93	1.23	206.22	0.012144	3.60	28.32	42.92	1.04
T2	1109.12	350 Year	DonPhaseII_Final_Baseline	7.27	204.65	205.32	0.62	205.45	0.008552	1.92	6.66	25.42	0.78
T2	1109.12	350 Year	DonPhaseII_Final_Proposed	7.27	204.65	205.32	0.62	205.45	0.008552	1.92	6.66	25.42	0.78
T2	1109.12	100 Year	DonPhaseII_Final_Baseline	4.03	204.65	205.19	0.50	205.33	0.009690	1.76	2.74	19.21	0.80
T2	1109.12	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	204.65	205.25	0.55	205.43	0.011238	2.03	3.19	22.67	0.87
T2	1109.12	50 Year	DonPhaseII_Final_Baseline	3.16	204.65	205.16	0.47	205.26	0.007367	1.47	2.53	17.21	0.69
T2	1109.12	100 Year	DonPhaseII_Final_Proposed	4.03	204.65	205.19	0.50	205.33	0.009690	1.76	2.74	19.21	0.80
T2	1109.12	25 Year	DonPhaseII_Final_Baseline	2.27	204.65	205.10	0.41	205.17	0.006328	1.24	2.11	12.70	0.62
T2	1109.12	50 Year	DonPhaseII_Final_Proposed	3.16	204.65	205.16	0.47	205.26	0.007367	1.47	2.53	17.21	0.69
T2	1109.12	10 Year	DonPhaseII_Final_Baseline	1.63	204.65	205.10	0.40	205.13	0.003432	0.90	2.07	12.01	0.46
T2	1109.12	25 Year	DonPhaseII_Final_Proposed	2.27	204.65	205.10	0.41	205.17	0.006328	1.24	2.11	12.70	0.62
T2	1109.12	5 Year	DonPhaseII_Final_Baseline	1.18	204.65	204.94	0.25	205.00	0.010144	1.12	1.14	5.50	0.72
T2	1109.12	10 Year	DonPhaseII_Final_Proposed	1.63	204.65	205.10	0.40	205.13	0.003432	0.90	2.07	12.01	0.46
T2	1109.12	2 Year	DonPhaseII_Final_Baseline	0.59	204.65	204.88	0.19	204.91	0.006579	0.76	0.83	5.11	0.56
T2	1109.12	5 Year	DonPhaseII_Final_Proposed	1.18	204.65	204.94	0.25	205.00	0.010144	1.12	1.14	5.50	0.72
T2	1109.12	2 Year	DonPhaseII_Final_Proposed	0.59	204.65	204.88	0.19	204.91	0.006579	0.76	0.83	5.11	0.56
T2	1066.7	Regional	DonPhaseII_Final_Baseline	51.01	204.37	205.56	1.18	205.68	0.009314	3.08	41.44	52.14	0.91
T2	1066.7	Regional	DonPhaseII_Final_Proposed	51.01	204.37	205.56	1.18	205.68	0.009314	3.08	41.44	52.14	0.91
T2	1066.7	350 Year	DonPhaseII_Final_Baseline	7.27	204.37	204.94	0.56	205.03	0.011742	2.11	10.56	47.21	0.90
T2	1066.7	350 Year	DonPhaseII_Final_Proposed	7.27	204.37	204.94	0.56	205.03	0.011742	2.11	10.56	47.21	0.90
T2	1066.7	100 Year	DonPhaseII_Final_Baseline	4.03	204.37	204.88	0.50	204.94	0.008824	1.68	7.46	46.21	0.76
T2	1066.7	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	204.37	204.91	0.52	204.98	0.010078	1.87	8.73	46.62	0.82
T2	1066.7	50 Year	DonPhaseII_Final_Baseline	3.16	204.37	204.83	0.45	204.90	0.010625	1.72	5.36	37.56	0.82
T2	1066.7	100 Year	DonPhaseII_Final_Proposed	4.03	204.37	204.88	0.50	204.94	0.008824	1.68	7.46	46.21	0.76
T2	1066.7	25 Year	DonPhaseII_Final_Baseline	2.27	204.37	204.78	0.40	204.85	0.010255	1.57	3.79	27.71	0.79
T2	1066.7	50 Year	DonPhaseII_Final_Proposed	3.16	204.37	204.83	0.45	204.90	0.010625	1.72	5.36	37.56	0.82
T2	1066.7	10 Year	DonPhaseII_Final_Baseline	1.63	204.37	204.72	0.34	204.85	0.017214	1.83	1.45	18.83	1.00
T2	1066.7	25 Year	DonPhaseII_Final_Proposed	2.27	204.37	204.78	0.40	204.85	0.010255	1.57	3.79	27.71	0.79
T2	1066.7	5 Year	DonPhaseII_Final_Baseline	1.18	204.37	204.79	0.41	204.80	0.002598	0.80	3.94	28.86	0.40
T2	1066.7	10 Year	DonPhaseII_Final_Proposed	1.63	204.37	204.72	0.34	204.85	0.017214	1.83	1.45	18.83	1.00
T2	1066.7	2 Year	DonPhaseII_Final_Baseline	0.59	204.37	204.67	0.29	204.69	0.004375	0.82	1.12	14.38	0.49
T2	1066.7	5 Year	DonPhaseII_Final_Proposed	1.18	204.37	204.79	0.41	204.80	0.002598	0.80	3.94	28.86	0.40
T2	1066.7	2 Year	DonPhaseII_Final_Proposed	0.59	204.37	204.67	0.29	204.69	0.004375	0.82	1.12	14.38	0.49
T2	1037.96	Regional	DonPhaseII_Final_Baseline	51.01	204.21	205.53	1.29	205.56	0.002364	1.64	77.40	73.38	0.46
T2	1037.96	Regional	DonPhaseII_Final_Proposed	51.01	204.21	205.53	1.29	205.56	0.002364	1.64	77.40	73.38	0.46
T2	1037.96	350 Year	DonPhaseII_Final_Baseline	7.27	204.21	204.69	0.46	204.71	0.004278	1.10	18.76	65.43	0.52
T2	1037.96	350 Year	DonPhaseII_Final_Proposed	7.27	204.21	204.69	0.46	204.71	0.004278	1.10	18.76	65.43	0.52
T2	1037.96	100 Year	DonPhaseII_Final_Baseline	4.03	204.21	204.56	0.33	204.61	0.014615	1.63	6.85	56.17	0.91
T2	1037.96	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	204.21	204.63	0.40	204.65	0.004537	1.04	14.93	64.66	0.53
T2	1037.96	50 Year	DonPhaseII_Final_Baseline	3.16	204.21	204.58	0.34	204.60	0.007450	1.20	7.38	58.02	0.66
T2	1037.96	100 Year	DonPhaseII_Final_Proposed	4.03	204.21	204.56	0.33	204.61	0.014615	1.63	6.85	56.17	0.91
T2	1037.96	25 Year	DonPhaseII_Final_Baseline	2.27	204.21	204.56	0.33	204.58	0.004637	0.92	6.85	56.17	0.51
T2	1037.96	50 Year	DonPhaseII_Final_Proposed	3.16	204.21	204.58	0.34	204.60	0.007450	1.20	7.38	58.02	0.66
T2	1037.96	10 Year	DonPhaseII_Final_Baseline	1.63	204.21	204.56	0.33	204.57	0.002391	0.66	6.85	56.17	0.37
T2	1037.96	25 Year	DonPhaseII_Final_Proposed	2.27	204.21	204.56	0.33	204.58	0.004637	0.92	6.85	56.17	0.51
T2	1037.96	5 Year	DonPhaseII_Final_Baseline	1.18	204.21	204.55	0.31	204.65	0.014271	1.57	1.23	54.78	0.90
T2	1037.96	10 Year	DonPhaseII_Final_Proposed	1.63	204.21	204.56	0.33	204.57	0.002391	0.66	6.85	56.17	0.37
T2	1037.96	2 Year	DonPhaseII_Final_Baseline	0.59	204.21	204.50	0.26	204.54	0.006768	0.97	0.90	50.58	0.60
T2	1037.96	5 Year	DonPhaseII_Final_Proposed	1.18	204.21	204.55	0.31	204.65	0.014271	1.57	1.23	54.78	0.90
T2	1037.96	2 Year	DonPhaseII_Final_Proposed	0.59	204.21	204.50	0.26	204.54	0.006768	0.97	0.90	50.58	0.60
T2	958.63	Regional	DonPhaseII_Final_Baseline	51.01	203.33	204.89	1.42	205.20	0.009271	3.43	35.59	60.31	0.92
T2	958.63	Regional	DonPhaseII_Final_Proposed	51.01	203.33	204.89	1.42	205.20	0.009271	3.43	35.59	60.31	0.92
T2	958.63	350 Year	DonPhaseII_Final_Baseline	7.27	203.33	204.01	0.54	204.17	0.011279	2.00	6.37	21.58	0.87
T2	958.63	350 Year	DonPhaseII_Final_Proposed	7.27	203.33	204.01	0.54	204.17	0.011279	2.00	6.37	21.58	0.87
T2	958.63	100 Year	DonPhaseII_Final_Baseline	4.03	203.33	203.85	0.38	203.98	0.014420	1.77	3.42	14.14	0.92
T2	958.63	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	203.33	203.91	0.44	204.06	0.013450	1.89	4.32	15.37	0.91
T2	958.63	50 Year	DonPhaseII_Final_Baseline	3.16	203.33	203.84	0.37	203.93	0.009478	1.42	3.33	14.09	0.74
T2	958.63	100 Year	DonPhaseII_Final_Proposed	4.03	203.33	203.85	0.38	203.98	0.014420	1.77	3.42	14.14	0.92
T2	958.63	25 Year	DonPhaseII_Final_Baseline	2.27	203.33	203.76	0.29	203.85	0.012254	1.38	2.28	13.34	0.81
T2	958.63	50 Year	DonPhaseII_Final_Proposed	3.16	203.33	203.84	0.37	203.93	0.009478	1.42	3.33	14.09	0.74
T2	958.63	10 Year	DonPhaseII_Final_Baseline	1.63	203.33	203.70	0.23	203.79	0.016419	1.38	1.43	10.72	0.91
T2	958.63	25 Year	DonPhaseII_Final_Proposed	2.27	203.33	203.76	0.29	203.85	0.012254	1.38	2.28	13.34	0.81
T2	958.63	5 Year	DonPhaseII_Final_Baseline	1.18	203.33	203.64	0.19	203.73	0.019370	1.31	0.97	7.27	0.95
T2	958.63	10 Year	DonPhaseII_Final_Proposed	1.63	203.33	203.70	0.23	203.79	0.016419	1.38	1.43	10.72	0.91
T2	958.63	2 Year	DonPhaseII_Final_Baseline	0.59	203.33	203.55	0.14	203.62	0.024197	1.21	0.49	3.41	1.02
T2	958.63	5 Year	DonPhaseII_Final_Proposed	1.18	203.33	203.64	0.19	203.73	0.019370	1.31	0.97	7.27	0.95
T2	958.63	2 Year	DonPhaseII_Final_Proposed	0.59	203.33	203.55	0.14	203.62	0.024197	1.21	0.49	3.41	1.02
T2	933.16	Regional	DonPhaseII_Final_Baseline	51.01	202.87	204.10	1.16	204.44	0.014649	3.81	24.31	33.76	1.13
T2	933.16	Regional	DonPhaseII_Final_Proposed	51.01	202.87	204.10	1.16	204.44	0.014649	3.81	24.31	33.76	1.13
T2	933.16	350 Year	DonPhaseII_Final_Baseline	7.27	202.87	203.52	0.59	203.63	0.008384	1.83	5.82	28.60	0.76
T2	933.16	350 Year	DonPhaseII_Final_Proposed	7.27	202.87	203.52	0.59	203.63	0.008384	1.83	5.82	28.60	0.76
T2	933.16	100 Year	DonPhaseII_Final_Baseline	4.03	202.87	203.52	0.59	203.55	0.002577	1.01	5.82	28.60	0.42
T2	933.16	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	202.87	203.52	0.59	203.58	0.004355	1.32	5.82	28.60	0.55
T2	933.16	50 Year	DonPhaseII_Final_Baseline	3.16	202.87	203.42	0.49	203.62	0.014072	2.08	1.90	13.30	0.96

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	933.16	100 Year	DonPhaseII_Final_Proposed	4.03	202.87	203.52	0.59	203.55	0.002577	1.01	5.82	28.60	0.42
T2	933.16	25 Year	DonPhaseII_Final_Baseline	2.27	202.87	203.32	0.39	203.50	0.015359	1.89	1.41	11.06	0.96
T2	933.16	50 Year	DonPhaseII_Final_Proposed	3.16	202.87	203.42	0.49	203.62	0.014072	2.08	1.90	13.30	0.96
T2	933.16	10 Year	DonPhaseII_Final_Baseline	1.63	202.87	203.26	0.33	203.39	0.014507	1.63	1.13	10.25	0.91
T2	933.16	25 Year	DonPhaseII_Final_Proposed	2.27	202.87	203.32	0.39	203.50	0.015359	1.89	1.41	11.06	0.96
T2	933.16	5 Year	DonPhaseII_Final_Baseline	1.18	202.87	203.21	0.28	203.31	0.013604	1.42	0.92	9.59	0.86
T2	933.16	10 Year	DonPhaseII_Final_Proposed	1.63	202.87	203.26	0.33	203.39	0.014507	1.63	1.13	10.25	0.91
T2	933.16	2 Year	DonPhaseII_Final_Baseline	0.59	202.87	203.12	0.19	203.18	0.012035	1.04	0.60	7.75	0.76
T2	933.16	5 Year	DonPhaseII_Final_Proposed	1.18	202.87	203.21	0.28	203.31	0.013604	1.42	0.92	9.59	0.86
T2	933.16	2 Year	DonPhaseII_Final_Proposed	0.59	202.87	203.12	0.19	203.18	0.012035	1.04	0.60	7.75	0.76
T2	848.78	Regional	DonPhaseII_Final_Baseline	51.01	201.68	203.77	2.06	203.91	0.003308	2.66	48.40	38.09	0.59
T2	848.78	Regional	DonPhaseII_Final_Proposed	51.01	201.68	203.77	2.06	203.91	0.003308	2.66	48.40	38.09	0.59
T2	848.78	350 Year	DonPhaseII_Final_Baseline	7.27	201.68	202.39	0.67	202.63	0.013510	2.55	5.29	14.21	0.99
T2	848.78	350 Year	DonPhaseII_Final_Proposed	7.27	201.68	202.39	0.67	202.63	0.013510	2.55	5.29	14.21	0.99
T2	848.78	100 Year	DonPhaseII_Final_Baseline	4.03	201.68	202.21	0.50	202.36	0.011926	1.96	3.33	9.31	0.89
T2	848.78	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	201.68	202.31	0.59	202.47	0.010701	2.08	4.31	11.08	0.86
T2	848.78	50 Year	DonPhaseII_Final_Baseline	3.16	201.68	202.13	0.42	202.27	0.013655	1.87	2.64	8.47	0.92
T2	848.78	100 Year	DonPhaseII_Final_Proposed	4.03	201.68	202.21	0.50	202.36	0.011926	1.96	3.33	9.31	0.89
T2	848.78	25 Year	DonPhaseII_Final_Baseline	2.27	201.68	202.05	0.34	202.17	0.015916	1.74	1.97	7.82	0.96
T2	848.78	50 Year	DonPhaseII_Final_Proposed	3.16	201.68	202.13	0.42	202.27	0.013655	1.87	2.64	8.47	0.92
T2	848.78	10 Year	DonPhaseII_Final_Baseline	1.63	201.68	201.99	0.27	202.09	0.017931	1.61	1.48	7.32	0.98
T2	848.78	25 Year	DonPhaseII_Final_Proposed	2.27	201.68	202.05	0.34	202.17	0.015916	1.74	1.97	7.82	0.96
T2	848.78	5 Year	DonPhaseII_Final_Baseline	1.18	201.68	201.94	0.23	202.03	0.018438	1.45	1.16	6.96	0.97
T2	848.78	10 Year	DonPhaseII_Final_Proposed	1.63	201.68	201.99	0.27	202.09	0.017931	1.61	1.48	7.32	0.98
T2	848.78	2 Year	DonPhaseII_Final_Baseline	0.59	201.68	201.87	0.15	201.93	0.019559	1.15	0.67	6.29	0.93
T2	848.78	5 Year	DonPhaseII_Final_Proposed	1.18	201.68	201.94	0.23	202.03	0.018438	1.45	1.16	6.96	0.97
T2	848.78	2 Year	DonPhaseII_Final_Proposed	0.59	201.68	201.87	0.15	201.93	0.019559	1.15	0.67	6.29	0.93
T2	809.63	Regional	DonPhaseII_Final_Baseline	51.01	201.06	203.72	2.55	203.81	0.001679	2.16	60.47	65.85	0.43
T2	809.63	Regional	DonPhaseII_Final_Proposed	51.01	201.06	203.72	2.55	203.81	0.001679	2.16	60.47	65.85	0.43
T2	809.63	350 Year	DonPhaseII_Final_Baseline	7.27	201.06	202.23	1.07	202.34	0.003383	1.72	8.50	18.32	0.53
T2	809.63	350 Year	DonPhaseII_Final_Proposed	7.27	201.06	202.23	1.07	202.34	0.003383	1.72	8.50	18.32	0.53
T2	809.63	100 Year	DonPhaseII_Final_Baseline	4.03	201.06	201.87	0.71	202.02	0.006511	1.80	2.88	7.99	0.69
T2	809.63	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	201.06	201.99	0.83	202.16	0.005890	1.92	4.34	15.58	0.67
T2	809.63	50 Year	DonPhaseII_Final_Baseline	3.16	201.06	201.77	0.61	201.90	0.006828	1.67	2.31	5.25	0.68
T2	809.63	100 Year	DonPhaseII_Final_Proposed	4.03	201.06	201.87	0.71	202.02	0.006511	1.80	2.88	7.99	0.69
T2	809.63	25 Year	DonPhaseII_Final_Baseline	2.27	201.06	201.66	0.50	201.77	0.007125	1.49	1.76	4.71	0.68
T2	809.63	50 Year	DonPhaseII_Final_Proposed	3.16	201.06	201.77	0.61	201.90	0.006828	1.67	2.31	5.25	0.68
T2	809.63	10 Year	DonPhaseII_Final_Baseline	1.63	201.06	201.57	0.41	201.66	0.007216	1.32	1.37	4.27	0.66
T2	809.63	25 Year	DonPhaseII_Final_Proposed	2.27	201.06	201.66	0.50	201.77	0.007125	1.49	1.76	4.71	0.68
T2	809.63	5 Year	DonPhaseII_Final_Baseline	1.18	201.06	201.50	0.34	201.57	0.007103	1.16	1.09	3.91	0.63
T2	809.63	10 Year	DonPhaseII_Final_Proposed	1.63	201.06	201.57	0.41	201.66	0.007216	1.32	1.37	4.27	0.66
T2	809.63	2 Year	DonPhaseII_Final_Baseline	0.59	201.06	201.40	0.24	201.43	0.006206	0.85	0.71	3.34	0.56
T2	809.63	5 Year	DonPhaseII_Final_Proposed	1.18	201.06	201.50	0.34	201.57	0.007103	1.16	1.09	3.91	0.63
T2	809.63	2 Year	DonPhaseII_Final_Proposed	0.59	201.06	201.40	0.24	201.43	0.006206	0.85	0.71	3.34	0.56
T2	800.69	Regional	DonPhaseII_Final_Baseline	51.01	200.91	203.71	2.76	203.79	0.001259	1.99	68.19	69.88	0.38
T2	800.69	Regional	DonPhaseII_Final_Proposed	51.01	200.91	203.71	2.76	203.79	0.001259	1.99	68.19	69.88	0.38
T2	800.69	350 Year	DonPhaseII_Final_Baseline	7.27	200.91	202.24	1.30	202.30	0.001284	1.22	10.48	15.14	0.34
T2	800.69	350 Year	DonPhaseII_Final_Proposed	7.27	200.91	202.24	1.30	202.30	0.001284	1.22	10.48	15.14	0.34
T2	800.69	100 Year	DonPhaseII_Final_Baseline	4.03	200.91	201.90	0.96	201.94	0.001305	1.00	6.85	10.68	0.33
T2	800.69	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	200.91	202.04	1.09	202.08	0.001310	1.10	8.26	13.53	0.33
T2	800.69	50 Year	DonPhaseII_Final_Baseline	3.16	200.91	201.80	0.85	201.83	0.001279	0.92	5.78	10.11	0.32
T2	800.69	100 Year	DonPhaseII_Final_Proposed	4.03	200.91	201.90	0.96	201.94	0.001305	1.00	6.85	10.68	0.33
T2	800.69	25 Year	DonPhaseII_Final_Baseline	2.27	200.91	201.68	0.73	201.70	0.001178	0.80	4.63	9.51	0.30
T2	800.69	50 Year	DonPhaseII_Final_Proposed	3.16	200.91	201.80	0.85	201.83	0.001279	0.92	5.78	10.11	0.32
T2	800.69	10 Year	DonPhaseII_Final_Baseline	1.63	200.91	201.59	0.64	201.60	0.001036	0.68	3.76	9.03	0.27
T2	800.69	25 Year	DonPhaseII_Final_Proposed	2.27	200.91	201.68	0.73	201.70	0.001178	0.80	4.63	9.51	0.30
T2	800.69	5 Year	DonPhaseII_Final_Baseline	1.18	200.91	201.51	0.57	201.53	0.000875	0.58	3.11	8.67	0.25
T2	800.69	10 Year	DonPhaseII_Final_Proposed	1.63	200.91	201.59	0.64	201.60	0.001036	0.68	3.76	9.03	0.27
T2	800.69	2 Year	DonPhaseII_Final_Baseline	0.59	200.91	201.40	0.46	201.41	0.000516	0.38	2.18	8.05	0.18
T2	800.69	5 Year	DonPhaseII_Final_Proposed	1.18	200.91	201.51	0.57	201.53	0.000875	0.58	3.11	8.67	0.25
T2	800.69	2 Year	DonPhaseII_Final_Proposed	0.59	200.91	201.40	0.46	201.41	0.000516	0.38	2.18	8.05	0.18
T2	782.1			Culvert									
T2	767.18	Regional	DonPhaseII_Final_Baseline	51.20	200.94	202.79	1.81	203.52	0.009482	4.12	17.61	14.78	0.98
T2	767.18	Regional	DonPhaseII_Final_Proposed	51.20	200.94	202.79	1.81	203.52	0.009482	4.12	17.61	14.78	0.98
T2	767.18	350 Year	DonPhaseII_Final_Baseline	7.24	200.94	201.53	0.55	201.78	0.013664	2.25	3.68	8.30	0.96
T2	767.18	350 Year	DonPhaseII_Final_Proposed	7.24	200.94	201.53	0.55	201.78	0.013664	2.25	3.68	8.30	0.96
T2	767.18	100 Year	DonPhaseII_Final_Baseline	3.84	200.94	201.35	0.37	201.52	0.016026	1.84	2.23	7.12	0.97
T2	767.18	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	200.94	201.42	0.44	201.61	0.014973	2.00	2.74	7.55	0.97
T2	767.18	50 Year	DonPhaseII_Final_Baseline	2.93	200.94	201.29	0.31	201.43	0.017169	1.69	1.81	6.75	0.98
T2	767.18	100 Year	DonPhaseII_Final_Proposed	3.84	200.94	201.35	0.37	201.52	0.016026	1.84	2.23	7.12	0.97
T2	767.18	25 Year	DonPhaseII_Final_Baseline	2.13	200.94	201.23	0.25	201.35	0.018881	1.54	1.42	6.39	0.99
T2	767.18	50 Year	DonPhaseII_Final_Proposed	2.93	200.94	201.29	0.31	201.43	0.017169	1.69	1.81	6.75	0.98
T2	767.18	10 Year	DonPhaseII_Final_Baseline	1.56	200.94	201.18	0.20	201.28	0.020588	1.40	1.13	6.05	1.00
T2	767.18	25 Year	DonPhaseII_Final_Proposed	2.13	200.94	201.23	0.25	201.35	0.018881	1.54	1.42	6.39	0.99
T2	767.18	5 Year	DonPhaseII_Final_Baseline	1.10	200.94	201.14	0.16	201.22	0.022031	1.24	0.89	5.73	0.99
T2	767.18	10 Year	DonPhaseII_Final_Proposed	1.56	200.94	201.18	0.20	201.28	0.020588	1.40	1.13	6.05	1.00
T2	767.18	2 Year	DonPhaseII_Final_Baseline	0.56	200.94	201.08	0.11	201.13	0.025507	1.02	0.55	5.14	1.00
T2	767.18	5 Year	DonPhaseII_Final_Proposed	1.10	200.94	201.14	0.16	201.22	0.022031	1.24	0.89	5.73	0.99
T2	767.18	2 Year	DonPhaseII_Final_Proposed	0.56	200.94	201.08	0.11	201.13	0.025507	1.02	0.55	5.14	1.00
T2	755.65	Regional	DonPhaseII_Final_Baseline	51.20	200.48	202.35	1.79	202.76	0.008262	3.78	31.98	35.11	0.90
T2	755.65	Regional	DonPhaseII_Final_Proposed	51.20	200.48	202.35	1.79	202.76	0.008262	3.78	31.98	35.11	0.90
T2	755.65	350 Year	DonPhaseII_Final_Baseline	7.24	200.48	201.28	0.71	201.53	0.010651	2.33	4.20	12.66	0.88
T2	755.65	350 Year	DonPhaseII_Final_Proposed	7.24	200.48	201.28	0.71	201.53	0.010651	2.33	4.20	12.66	0.88
T2	755.65	100 Year	DonPhaseII_Final_Baseline	3.84	200.48	201.08	0.51	201.24	0.010124	1.81	2.40	6.21	0.81
T2	755.65	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	200.48	201.11	0.55	201.35	0.013319	2.18	2.67	7.54	0.94
T2	755.65	50 Year	DonPhaseII_Final_Baseline	2.93	200.48	201.03	0.46	201.14	0.008439	1.55	2.10	5.85	0.73
T2	755.65	100 Year	DonPhaseII_Final_Proposed	3.84	200.48	201.08	0.51	201.24	0.010124	1.81	2.40	6.21	0.81
T2	755.65	25 Year	DonPhaseII_Final_Baseline	2.13	200.48	200.98	0.41	201.06	0.006591	1.27	1.82	5.50	0.63
T2	755.65	50 Year	DonPhaseII_Final_Proposed	2.93	200.48	201.03	0.46	201.14	0.008439	1.55	2.10	5.85	0.73
T2	755.65	10 Year	DonPhaseII_Final_Baseline	1.56	200.48	200.93	0.37	200.99	0.005131	1.04	1.60	5.18	0.55
T2	755.65	25 Year	DonPhaseII_Final_Proposed	2.13	200.48	200.98	0.41	201.06	0.006591	1.27	1.82	5.50	0.63

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	755.65	5 Year	DonPhaseII_Final_Baseline	1.10	200.48	200.89	0.33	200.93	0.003867	0.83	1.39	4.87	0.47
T2	755.65	10 Year	DonPhaseII_Final_Proposed	1.56	200.48	200.93	0.37	200.99	0.005131	1.04	1.60	5.18	0.55
T2	755.65	2 Year	DonPhaseII_Final_Baseline	0.56	200.48	200.80	0.24	200.82	0.002918	0.60	0.96	4.25	0.39
T2	755.65	5 Year	DonPhaseII_Final_Proposed	1.10	200.48	200.89	0.33	200.93	0.003867	0.83	1.39	4.87	0.47
T2	755.65	2 Year	DonPhaseII_Final_Proposed	0.56	200.48	200.80	0.24	200.82	0.002918	0.60	0.96	4.25	0.39
T2	735.02	Regional	DonPhaseII_Final_Baseline	51.20	200.44	201.55	1.03	201.87	0.016843	3.75	30.35	57.59	1.18
T2	735.02	Regional	DonPhaseII_Final_Proposed	51.20	200.44	201.55	1.03	201.87	0.016843	3.75	30.35	57.59	1.18
T2	735.02	350 Year	DonPhaseII_Final_Baseline	7.24	200.44	201.02	0.49	201.11	0.009645	1.74	8.88	35.02	0.79
T2	735.02	350 Year	DonPhaseII_Final_Proposed	7.24	200.44	201.02	0.49	201.11	0.009645	1.74	8.88	35.02	0.79
T2	735.02	100 Year	DonPhaseII_Final_Baseline	3.84	200.44	200.88	0.35	200.98	0.013410	1.64	4.35	26.41	0.88
T2	735.02	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	200.44	200.93	0.41	201.03	0.011177	1.66	6.11	32.71	0.82
T2	735.02	50 Year	DonPhaseII_Final_Baseline	2.93	200.44	200.84	0.32	200.93	0.011725	1.44	3.59	23.45	0.81
T2	735.02	100 Year	DonPhaseII_Final_Proposed	3.84	200.44	200.88	0.35	200.98	0.013410	1.64	4.35	26.41	0.88
T2	735.02	25 Year	DonPhaseII_Final_Baseline	2.13	200.44	200.80	0.27	200.88	0.012417	1.33	2.54	20.34	0.81
T2	735.02	50 Year	DonPhaseII_Final_Proposed	2.93	200.44	200.84	0.32	200.93	0.011725	1.44	3.59	23.45	0.81
T2	735.02	10 Year	DonPhaseII_Final_Baseline	1.56	200.44	200.76	0.24	200.83	0.012515	1.22	1.81	18.99	0.80
T2	735.02	25 Year	DonPhaseII_Final_Proposed	2.13	200.44	200.80	0.27	200.88	0.012417	1.33	2.54	20.34	0.81
T2	735.02	5 Year	DonPhaseII_Final_Baseline	1.10	200.44	200.70	0.19	200.78	0.017780	1.23	0.93	8.49	0.91
T2	735.02	10 Year	DonPhaseII_Final_Proposed	1.56	200.44	200.76	0.24	200.83	0.012515	1.22	1.81	18.99	0.80
T2	735.02	2 Year	DonPhaseII_Final_Baseline	0.56	200.44	200.62	0.12	200.68	0.025700	1.09	0.51	4.38	1.02
T2	735.02	5 Year	DonPhaseII_Final_Proposed	1.10	200.44	200.70	0.19	200.78	0.017780	1.23	0.93	8.49	0.91
T2	735.02	2 Year	DonPhaseII_Final_Proposed	0.56	200.44	200.62	0.12	200.68	0.025700	1.09	0.51	4.38	1.02
T2	681.94	Regional	DonPhaseII_Final_Baseline	51.20	199.83	201.05	1.21	201.17	0.009139	3.09	46.70	69.77	0.90
T2	681.94	Regional	DonPhaseII_Final_Proposed	51.20	199.83	201.05	1.21	201.17	0.009139	3.09	46.70	69.77	0.90
T2	681.94	350 Year	DonPhaseII_Final_Baseline	7.24	199.83	200.46	0.61	200.57	0.011037	2.17	8.40	45.13	0.88
T2	681.94	350 Year	DonPhaseII_Final_Proposed	7.24	199.83	200.46	0.61	200.57	0.011037	2.17	8.40	45.13	0.88
T2	681.94	100 Year	DonPhaseII_Final_Baseline	3.84	199.83	200.41	0.56	200.46	0.005157	1.40	6.30	34.22	0.60
T2	681.94	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	199.83	200.41	0.56	200.49	0.008719	1.82	6.30	34.20	0.77
T2	681.94	50 Year	DonPhaseII_Final_Baseline	2.93	199.83	200.41	0.56	200.44	0.003001	1.07	6.30	34.25	0.45
T2	681.94	100 Year	DonPhaseII_Final_Proposed	3.84	199.83	200.41	0.56	200.46	0.005157	1.40	6.30	34.22	0.60
T2	681.94	25 Year	DonPhaseII_Final_Baseline	2.13	199.83	200.37	0.53	200.44	0.005658	1.40	3.49	29.83	0.62
T2	681.94	50 Year	DonPhaseII_Final_Proposed	2.93	199.83	200.41	0.56	200.44	0.003001	1.07	6.30	34.25	0.45
T2	681.94	10 Year	DonPhaseII_Final_Baseline	1.56	199.83	200.30	0.46	200.37	0.005760	1.28	2.24	18.16	0.61
T2	681.94	25 Year	DonPhaseII_Final_Proposed	2.13	199.83	200.37	0.53	200.44	0.005658	1.40	3.49	29.83	0.62
T2	681.94	5 Year	DonPhaseII_Final_Baseline	1.10	199.83	200.23	0.38	200.28	0.005540	1.12	1.53	11.25	0.58
T2	681.94	10 Year	DonPhaseII_Final_Proposed	1.56	199.83	200.30	0.46	200.37	0.005760	1.28	2.24	18.16	0.61
T2	681.94	2 Year	DonPhaseII_Final_Baseline	0.56	199.83	200.12	0.27	200.15	0.005056	0.86	0.93	8.12	0.52
T2	681.94	5 Year	DonPhaseII_Final_Proposed	1.10	199.83	200.23	0.38	200.28	0.005540	1.12	1.53	11.25	0.58
T2	681.94	2 Year	DonPhaseII_Final_Proposed	0.56	199.83	200.12	0.27	200.15	0.005056	0.86	0.93	8.12	0.52
T2	588.73	Regional	DonPhaseII_Final_Baseline	51.20	199.04	200.28	1.20	200.51	0.016939	4.19	38.84	64.48	1.22
T2	588.73	Regional	DonPhaseII_Final_Proposed	51.20	199.04	200.28	1.20	200.51	0.016939	4.19	38.84	64.48	1.22
T2	588.73	350 Year	DonPhaseII_Final_Baseline	7.24	199.04	199.88	0.80	199.97	0.006326	1.96	13.63	61.94	0.70
T2	588.73	350 Year	DonPhaseII_Final_Proposed	7.24	199.04	199.88	0.80	199.97	0.006326	1.96	13.63	61.94	0.70
T2	588.73	100 Year	DonPhaseII_Final_Baseline	3.84	199.04	199.74	0.66	199.86	0.007480	1.87	5.84	41.14	0.73
T2	588.73	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	199.04	199.82	0.74	199.91	0.005968	1.80	9.79	57.84	0.67
T2	588.73	50 Year	DonPhaseII_Final_Baseline	2.93	199.04	199.71	0.63	199.80	0.005879	1.61	4.73	34.05	0.65
T2	588.73	100 Year	DonPhaseII_Final_Proposed	3.84	199.04	199.74	0.66	199.86	0.007480	1.87	5.84	41.14	0.73
T2	588.73	25 Year	DonPhaseII_Final_Baseline	2.13	199.04	199.52	0.44	199.71	0.015655	2.07	1.48	4.80	0.99
T2	588.73	50 Year	DonPhaseII_Final_Proposed	2.93	199.04	199.71	0.63	199.80	0.005879	1.61	4.73	34.05	0.65
T2	588.73	10 Year	DonPhaseII_Final_Baseline	1.56	199.04	199.45	0.37	199.61	0.015841	1.85	1.16	4.36	0.97
T2	588.73	25 Year	DonPhaseII_Final_Proposed	2.13	199.04	199.52	0.44	199.71	0.015655	2.07	1.48	4.80	0.99
T2	588.73	5 Year	DonPhaseII_Final_Baseline	1.10	199.04	199.38	0.30	199.51	0.016807	1.66	0.87	3.96	0.97
T2	588.73	10 Year	DonPhaseII_Final_Proposed	1.56	199.04	199.45	0.37	199.61	0.015841	1.85	1.16	4.36	0.97
T2	588.73	2 Year	DonPhaseII_Final_Baseline	0.56	199.04	199.28	0.20	199.37	0.019318	1.35	0.50	3.34	0.97
T2	588.73	5 Year	DonPhaseII_Final_Proposed	1.10	199.04	199.38	0.30	199.51	0.016807	1.66	0.87	3.96	0.97
T2	588.73	2 Year	DonPhaseII_Final_Proposed	0.56	199.04	199.28	0.20	199.37	0.019318	1.35	0.50	3.34	0.97
T2	528.08	Regional	DonPhaseII_Final_Baseline	51.20	198.36	199.85	1.42	200.00	0.007161	3.03	47.40	62.87	0.81
T2	528.08	Regional	DonPhaseII_Final_Proposed	51.20	198.36	199.85	1.42	200.00	0.007161	3.03	47.40	62.87	0.81
T2	528.08	350 Year	DonPhaseII_Final_Baseline	7.24	198.36	199.26	0.83	199.37	0.005321	1.82	10.94	58.16	0.64
T2	528.08	350 Year	DonPhaseII_Final_Proposed	7.24	198.36	199.26	0.83	199.37	0.005321	1.82	10.94	58.16	0.64
T2	528.08	100 Year	DonPhaseII_Final_Baseline	3.84	198.36	199.05	0.62	199.19	0.007353	1.77	3.55	15.35	0.72
T2	528.08	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	198.36	199.10	0.67	199.27	0.008679	2.02	4.44	22.04	0.79
T2	528.08	50 Year	DonPhaseII_Final_Baseline	2.93	198.36	198.98	0.55	199.10	0.007098	1.61	2.64	11.40	0.69
T2	528.08	100 Year	DonPhaseII_Final_Proposed	3.84	198.36	199.05	0.62	199.19	0.007353	1.77	3.55	15.35	0.72
T2	528.08	25 Year	DonPhaseII_Final_Baseline	2.13	198.36	198.96	0.53	199.03	0.004444	1.24	2.40	10.51	0.54
T2	528.08	50 Year	DonPhaseII_Final_Proposed	2.93	198.36	198.98	0.55	199.10	0.007098	1.61	2.64	11.40	0.69
T2	528.08	10 Year	DonPhaseII_Final_Baseline	1.56	198.36	198.89	0.46	198.94	0.004076	1.08	1.78	6.98	0.51
T2	528.08	25 Year	DonPhaseII_Final_Proposed	2.13	198.36	198.96	0.53	199.03	0.004444	1.24	2.40	10.51	0.54
T2	528.08	5 Year	DonPhaseII_Final_Baseline	1.10	198.36	198.80	0.37	198.84	0.004337	0.96	1.31	4.50	0.50
T2	528.08	10 Year	DonPhaseII_Final_Proposed	1.56	198.36	198.89	0.46	198.94	0.004076	1.08	1.78	6.98	0.51
T2	528.08	2 Year	DonPhaseII_Final_Baseline	0.56	198.36	198.69	0.26	198.72	0.003526	0.69	0.87	3.86	0.43
T2	528.08	5 Year	DonPhaseII_Final_Proposed	1.10	198.36	198.80	0.37	198.84	0.004337	0.96	1.31	4.50	0.50
T2	528.08	2 Year	DonPhaseII_Final_Proposed	0.56	198.36	198.69	0.26	198.72	0.003526	0.69	0.87	3.86	0.43
T2	500	Regional	DonPhaseII_Final_Baseline	51.20	198.24	199.78	1.37	199.83	0.003542	2.09	60.97	56.12	0.57
T2	500	Regional	DonPhaseII_Final_Proposed	51.20	198.24	199.78	1.37	199.83	0.003542	2.09	60.97	56.12	0.57
T2	500	350 Year	DonPhaseII_Final_Baseline	7.24	198.24	198.77	0.37	198.87	0.025801	2.35	8.49	46.15	1.23
T2	500	350 Year	DonPhaseII_Final_Proposed	7.24	198.24	198.77	0.37	198.87	0.025801	2.35	8.49	46.15	1.23
T2	500	100 Year	DonPhaseII_Final_Baseline	3.84	198.24	198.66	0.25	198.76	0.038642	2.23	4.04	30.47	1.42
T2	500	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	198.24	198.73	0.33	198.81	0.021797	2.00	6.76	40.28	1.11
T2	500	50 Year	DonPhaseII_Final_Baseline	2.93	198.24	198.64	0.23	198.71	0.029715	1.86	3.50	27.19	1.23
T2	500	100 Year	DonPhaseII_Final_Proposed	3.84	198.24	198.66	0.25	198.76	0.038642	2.23	4.04	30.47	1.42
T2	500	25 Year	DonPhaseII_Final_Baseline	2.13	198.24	198.59	0.18	198.72	0.051378	2.08	1.66	15.47	1.55
T2	500	50 Year	DonPhaseII_Final_Proposed	2.93	198.24	198.64	0.23	198.71	0.029715	1.86	3.50	27.19	1.23
T2	500	10 Year	DonPhaseII_Final_Baseline	1.56	198.24	198.55	0.15	198.65	0.051276	1.78	1.30	13.54	1.49
T2	500	25 Year	DonPhaseII_Final_Proposed	2.13	198.24	198.59	0.18	198.72	0.051378	2.08	1.66	15.47	1.55
T2	500	5 Year	DonPhaseII_Final_Baseline	1.10	198.24	198.57	0.16	198.61	0.019780	1.18	1.43	14.30	0.94
T2	500	10 Year	DonPhaseII_Final_Proposed	1.56	198.24	198.55	0.15	198.65	0.051276	1.78	1.30	13.54	1.49
T2	500	2 Year	DonPhaseII_Final_Baseline	0.56	198.24	198.47	0.11	198.51	0.023283	0.99	0.75	9.00	0.96
T2	500	5 Year	DonPhaseII_Final_Proposed	1.10	198.24	198.57	0.16	198.61	0.019780	1.18	1.43	14.30	0.94
T2	500	2 Year	DonPhaseII_Final_Proposed	0.56	198.24	198.47	0.11	198.51	0.023283	0.99	0.75	9.00	0.96
T2	413.53	Regional	DonPhaseII_Final_Baseline	51.20	197.53	199.70	2.11	199.74	0.001181	1.60	75.21	47.73	0.35

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	413.53	Regional	DonPhaseII_Final_Proposed	51.20	197.53	199.70	2.11	199.74	0.001181	1.60	75.21	47.73	0.35
T2	413.53	350 Year	DonPhaseII_Final_Baseline	7.24	197.53	198.41	0.82	198.43	0.001335	0.91	19.61	37.10	0.32
T2	413.53	350 Year	DonPhaseII_Final_Proposed	7.24	197.53	198.41	0.82	198.43	0.001335	0.91	19.61	37.10	0.32
T2	413.53	100 Year	DonPhaseII_Final_Baseline	3.84	197.53	198.15	0.56	198.17	0.002464	0.95	10.33	33.64	0.41
T2	413.53	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	197.53	198.25	0.66	198.26	0.001818	0.91	13.75	34.74	0.36
T2	413.53	50 Year	DonPhaseII_Final_Baseline	2.93	197.53	198.07	0.48	198.10	0.003043	0.96	7.89	32.86	0.44
T2	413.53	100 Year	DonPhaseII_Final_Proposed	3.84	197.53	198.15	0.56	198.17	0.002464	0.95	10.33	33.64	0.41
T2	413.53	25 Year	DonPhaseII_Final_Baseline	2.13	197.53	198.02	0.43	198.04	0.003049	0.89	6.20	32.32	0.43
T2	413.53	50 Year	DonPhaseII_Final_Proposed	2.93	197.53	198.07	0.48	198.10	0.003043	0.96	7.89	32.86	0.44
T2	413.53	10 Year	DonPhaseII_Final_Baseline	1.56	197.53	198.02	0.43	198.03	0.001666	0.66	6.16	32.30	0.32
T2	413.53	25 Year	DonPhaseII_Final_Proposed	2.13	197.53	198.02	0.43	198.04	0.003049	0.89	6.20	32.32	0.43
T2	413.53	5 Year	DonPhaseII_Final_Baseline	1.10	197.53	197.94	0.34	197.98	0.005372	1.02	1.47	27.65	0.56
T2	413.53	10 Year	DonPhaseII_Final_Proposed	1.56	197.53	198.02	0.43	198.03	0.001666	0.66	6.16	32.30	0.32
T2	413.53	2 Year	DonPhaseII_Final_Baseline	0.56	197.53	197.83	0.24	197.86	0.005280	0.80	0.83	15.39	0.52
T2	413.53	5 Year	DonPhaseII_Final_Proposed	1.10	197.53	197.94	0.34	197.98	0.005372	1.02	1.47	27.65	0.56
T2	413.53	2 Year	DonPhaseII_Final_Proposed	0.56	197.53	197.83	0.24	197.86	0.005280	0.80	0.83	15.39	0.52
T2	365.39	Regional	DonPhaseII_Final_Baseline	51.20	197.22	199.66	2.37	199.71	0.001189	1.74	75.19	49.95	0.36
T2	365.39	Regional	DonPhaseII_Final_Proposed	51.20	197.22	199.66	2.37	199.71	0.001189	1.74	75.19	49.95	0.36
T2	365.39	350 Year	DonPhaseII_Final_Baseline	7.24	197.22	198.36	1.07	198.39	0.001385	1.10	17.29	33.80	0.34
T2	365.39	350 Year	DonPhaseII_Final_Proposed	7.24	197.22	198.36	1.07	198.39	0.001385	1.10	17.29	33.80	0.34
T2	365.39	100 Year	DonPhaseII_Final_Baseline	3.84	197.22	198.04	0.76	198.09	0.002346	1.14	7.98	25.34	0.42
T2	365.39	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	197.22	198.17	0.89	198.21	0.001726	1.09	11.55	29.09	0.37
T2	365.39	50 Year	DonPhaseII_Final_Baseline	2.93	197.22	197.90	0.61	197.97	0.004137	1.32	4.65	20.87	0.54
T2	365.39	100 Year	DonPhaseII_Final_Proposed	3.84	197.22	198.04	0.76	198.09	0.002346	1.14	7.98	25.34	0.42
T2	365.39	25 Year	DonPhaseII_Final_Baseline	2.13	197.22	197.75	0.46	197.86	0.007815	1.50	2.06	11.16	0.70
T2	365.39	50 Year	DonPhaseII_Final_Proposed	2.93	197.22	197.90	0.61	197.97	0.004137	1.32	4.65	20.87	0.54
T2	365.39	10 Year	DonPhaseII_Final_Baseline	1.56	197.22	197.67	0.38	197.76	0.008309	1.37	1.45	5.87	0.70
T2	365.39	25 Year	DonPhaseII_Final_Proposed	2.13	197.22	197.75	0.46	197.86	0.007815	1.50	2.06	11.16	0.70
T2	365.39	5 Year	DonPhaseII_Final_Baseline	1.10	197.22	197.60	0.31	197.67	0.008676	1.22	1.06	4.80	0.70
T2	365.39	10 Year	DonPhaseII_Final_Proposed	1.56	197.22	197.67	0.38	197.76	0.008309	1.37	1.45	5.87	0.70
T2	365.39	2 Year	DonPhaseII_Final_Baseline	0.56	197.22	197.50	0.21	197.54	0.009123	0.95	0.63	3.71	0.67
T2	365.39	5 Year	DonPhaseII_Final_Proposed	1.10	197.22	197.60	0.31	197.67	0.008676	1.22	1.06	4.80	0.70
T2	365.39	2 Year	DonPhaseII_Final_Proposed	0.56	197.22	197.50	0.21	197.54	0.009123	0.95	0.63	3.71	0.67
T2	360.04	Regional	DonPhaseII_Final_Baseline	51.20	197.18	199.55	2.32	199.68	0.002506	2.49	58.16	51.14	0.52
T2	360.04	Regional	DonPhaseII_Final_Proposed	51.20	197.18	199.55	2.32	199.68	0.002506	2.49	58.16	51.14	0.52
T2	360.04	350 Year	DonPhaseII_Final_Baseline	7.24	197.18	198.18	0.94	198.34	0.005182	1.97	6.43	12.24	0.65
T2	360.04	350 Year	DonPhaseII_Final_Proposed	7.24	197.18	198.18	0.94	198.34	0.005182	1.97	6.43	12.24	0.65
T2	360.04	100 Year	DonPhaseII_Final_Baseline	3.84	197.18	197.93	0.69	198.05	0.005368	1.62	3.59	9.81	0.62
T2	360.04	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	197.18	198.04	0.81	198.17	0.004782	1.70	4.82	11.16	0.60
T2	360.04	50 Year	DonPhaseII_Final_Baseline	2.93	197.18	197.82	0.58	197.93	0.006035	1.53	2.63	7.88	0.64
T2	360.04	100 Year	DonPhaseII_Final_Proposed	3.84	197.18	197.93	0.69	198.05	0.005368	1.62	3.59	9.81	0.62
T2	360.04	25 Year	DonPhaseII_Final_Baseline	2.13	197.18	197.72	0.48	197.81	0.006328	1.39	1.94	6.14	0.64
T2	360.04	50 Year	DonPhaseII_Final_Proposed	2.93	197.18	197.82	0.58	197.93	0.006035	1.53	2.63	7.88	0.64
T2	360.04	10 Year	DonPhaseII_Final_Baseline	1.56	197.18	197.64	0.40	197.71	0.006565	1.25	1.48	5.11	0.63
T2	360.04	25 Year	DonPhaseII_Final_Proposed	2.13	197.18	197.72	0.48	197.81	0.006328	1.39	1.94	6.14	0.64
T2	360.04	5 Year	DonPhaseII_Final_Baseline	1.10	197.18	197.57	0.33	197.62	0.006674	1.10	1.13	4.50	0.61
T2	360.04	10 Year	DonPhaseII_Final_Proposed	1.56	197.18	197.64	0.40	197.71	0.006565	1.25	1.48	5.11	0.63
T2	360.04	2 Year	DonPhaseII_Final_Baseline	0.56	197.18	197.46	0.22	197.49	0.006783	0.85	0.69	3.73	0.58
T2	360.04	5 Year	DonPhaseII_Final_Proposed	1.10	197.18	197.57	0.33	197.62	0.006674	1.10	1.13	4.50	0.61
T2	360.04	2 Year	DonPhaseII_Final_Proposed	0.56	197.18	197.46	0.22	197.49	0.006783	0.85	0.69	3.73	0.58
T2	359.12			Bridge									
T2	353.9	Regional	DonPhaseII_Final_Baseline	51.20	196.84	199.19	2.28	199.54	0.006654	3.98	40.06	45.83	0.84
T2	353.9	Regional	DonPhaseII_Final_Proposed	51.20	196.84	199.19	2.28	199.54	0.006654	3.98	40.06	45.83	0.84
T2	353.9	350 Year	DonPhaseII_Final_Baseline	7.24	196.84	197.88	0.97	198.15	0.008799	2.59	4.89	10.13	0.84
T2	353.9	350 Year	DonPhaseII_Final_Proposed	7.24	196.84	197.88	0.97	198.15	0.008799	2.59	4.89	10.13	0.84
T2	353.9	100 Year	DonPhaseII_Final_Baseline	3.84	196.84	197.55	0.64	197.80	0.012266	2.33	2.28	5.89	0.93
T2	353.9	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	196.84	197.65	0.74	197.94	0.012081	2.54	2.91	6.91	0.94
T2	353.9	50 Year	DonPhaseII_Final_Baseline	2.93	196.84	197.45	0.54	197.67	0.013537	2.18	1.73	4.88	0.95
T2	353.9	100 Year	DonPhaseII_Final_Proposed	3.84	196.84	197.55	0.64	197.80	0.012266	2.33	2.28	5.89	0.93
T2	353.9	25 Year	DonPhaseII_Final_Baseline	2.13	196.84	197.35	0.44	197.54	0.014798	1.99	1.28	4.07	0.96
T2	353.9	50 Year	DonPhaseII_Final_Proposed	2.93	196.84	197.45	0.54	197.67	0.013537	2.18	1.73	4.88	0.95
T2	353.9	10 Year	DonPhaseII_Final_Baseline	1.56	196.84	197.27	0.36	197.43	0.015943	1.81	0.98	3.54	0.96
T2	353.9	25 Year	DonPhaseII_Final_Proposed	2.13	196.84	197.35	0.44	197.54	0.014798	1.99	1.28	4.07	0.96
T2	353.9	5 Year	DonPhaseII_Final_Baseline	1.10	196.84	197.19	0.28	197.33	0.018421	1.65	0.72	3.14	0.99
T2	353.9	10 Year	DonPhaseII_Final_Proposed	1.56	196.84	197.27	0.36	197.43	0.015943	1.81	0.98	3.54	0.96
T2	353.9	2 Year	DonPhaseII_Final_Baseline	0.56	196.84	197.09	0.18	197.18	0.021111	1.32	0.43	2.62	0.99
T2	353.9	5 Year	DonPhaseII_Final_Proposed	1.10	196.84	197.19	0.28	197.33	0.018421	1.65	0.72	3.14	0.99
T2	353.9	2 Year	DonPhaseII_Final_Proposed	0.56	196.84	197.09	0.18	197.18	0.021111	1.32	0.43	2.62	0.99
T2	345.27	Regional	DonPhaseII_Final_Baseline	51.20	196.63	198.38	1.65	198.59	0.007227	3.35	38.98	39.04	0.83
T2	345.27	Regional	DonPhaseII_Final_Proposed	51.20	196.63	198.38	1.65	198.59	0.007227	3.35	38.98	39.04	0.83
T2	345.27	350 Year	DonPhaseII_Final_Baseline	7.24	196.63	197.49	0.76	197.64	0.008076	2.11	8.11	27.16	0.77
T2	345.27	350 Year	DonPhaseII_Final_Proposed	7.24	196.63	197.49	0.76	197.64	0.008076	2.11	8.11	27.16	0.77
T2	345.27	100 Year	DonPhaseII_Final_Baseline	3.84	196.63	197.34	0.61	197.47	0.007615	1.77	4.38	22.11	0.72
T2	345.27	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	196.63	197.40	0.67	197.53	0.007601	1.89	5.84	24.52	0.74
T2	345.27	50 Year	DonPhaseII_Final_Baseline	2.93	196.63	197.23	0.50	197.38	0.010569	1.84	2.36	11.56	0.83
T2	345.27	100 Year	DonPhaseII_Final_Proposed	3.84	196.63	197.34	0.61	197.47	0.007615	1.77	4.38	22.11	0.72
T2	345.27	25 Year	DonPhaseII_Final_Baseline	2.13	196.63	197.12	0.39	197.28	0.014780	1.83	1.40	5.68	0.94
T2	345.27	50 Year	DonPhaseII_Final_Proposed	2.93	196.63	197.23	0.50	197.38	0.010569	1.84	2.36	11.56	0.83
T2	345.27	10 Year	DonPhaseII_Final_Baseline	1.56	196.63	197.04	0.31	197.19	0.017352	1.71	1.01	4.21	0.98
T2	345.27	25 Year	DonPhaseII_Final_Proposed	2.13	196.63	197.12	0.39	197.28	0.014780	1.83	1.40	5.68	0.94
T2	345.27	5 Year	DonPhaseII_Final_Baseline	1.10	196.63	196.98	0.25	197.10	0.018824	1.54	0.76	3.72	0.98
T2	345.27	10 Year	DonPhaseII_Final_Proposed	1.56	196.63	197.04	0.31	197.19	0.017352	1.71	1.01	4.21	0.98
T2	345.27	2 Year	DonPhaseII_Final_Baseline	0.56	196.63	196.88	0.16	196.96	0.023304	1.26	0.45	2.98	1.01
T2	345.27	5 Year	DonPhaseII_Final_Proposed	1.10	196.63	196.98	0.25	197.10	0.018824	1.54	0.76	3.72	0.98
T2	345.27	2 Year	DonPhaseII_Final_Proposed	0.56	196.63	196.88	0.16	196.96	0.023304	1.26	0.45	2.98	1.01
T2	302.15	Regional	DonPhaseII_Final_Baseline	51.20	196.14	197.79	1.60	198.26	0.011364	4.15	28.65	34.94	1.05
T2	302.15	Regional	DonPhaseII_Final_Proposed	51.20	196.14	197.79	1.60	198.26	0.011364	4.15	28.65	34.94	1.05
T2	302.15	350 Year	DonPhaseII_Final_Baseline	7.24	196.14	196.83	0.65	197.14	0.015070	2.61	4.27	15.73	1.04
T2	302.15	350 Year	DonPhaseII_Final_Proposed	7.24	196.14	196.83	0.65	197.14	0.015070	2.61	4.27	15.73	1.04
T2	302.15	100 Year	DonPhaseII_Final_Baseline	3.84	196.14	196.65	0.46	196.84	0.013910	2.01	2.38	7.27	0.94
T2	302.15	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	196.14	196.73	0.54	196.95	0.013472	2.20	3.03	9.46	0.95

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Hydr Depth C	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
T2	302.15	50 Year	DonPhaseII_Final_Baseline	2.93	196.14	196.59	0.40	196.74	0.013675	1.81	1.95	6.45	0.91
T2	302.15	100 Year	DonPhaseII_Final_Proposed	3.84	196.14	196.65	0.46	196.84	0.013910	2.01	2.38	7.27	0.94
T2	302.15	25 Year	DonPhaseII_Final_Baseline	2.13	196.14	196.54	0.36	196.65	0.010862	1.49	1.68	6.12	0.80
T2	302.15	50 Year	DonPhaseII_Final_Proposed	2.93	196.14	196.59	0.40	196.74	0.013675	1.81	1.95	6.45	0.91
T2	302.15	10 Year	DonPhaseII_Final_Baseline	1.56	196.14	196.51	0.32	196.58	0.008816	1.24	1.44	5.82	0.70
T2	302.15	25 Year	DonPhaseII_Final_Proposed	2.13	196.14	196.54	0.36	196.65	0.010862	1.49	1.68	6.12	0.80
T2	302.15	5 Year	DonPhaseII_Final_Baseline	1.10	196.14	196.46	0.27	196.51	0.007740	1.04	1.17	5.45	0.64
T2	302.15	10 Year	DonPhaseII_Final_Proposed	1.56	196.14	196.51	0.32	196.58	0.008816	1.24	1.44	5.82	0.70
T2	302.15	2 Year	DonPhaseII_Final_Baseline	0.56	196.14	196.37	0.18	196.40	0.007734	0.80	0.73	4.67	0.60
T2	302.15	5 Year	DonPhaseII_Final_Proposed	1.10	196.14	196.46	0.27	196.51	0.007740	1.04	1.17	5.45	0.64
T2	302.15	2 Year	DonPhaseII_Final_Proposed	0.56	196.14	196.37	0.18	196.40	0.007734	0.80	0.73	4.67	0.60
T2	240	Regional	DonPhaseII_Final_Baseline	51.20	195.33	197.27	1.88	197.52	0.007807	3.82	35.15	29.30	0.89
T2	240	Regional	DonPhaseII_Final_Proposed	51.20	195.33	197.27	1.88	197.52	0.007807	3.82	35.15	29.30	0.89
T2	240	350 Year	DonPhaseII_Final_Baseline	7.24	195.33	196.14	0.75	196.31	0.011787	2.55	7.28	20.01	0.94
T2	240	350 Year	DonPhaseII_Final_Proposed	7.24	195.33	196.14	0.75	196.31	0.011787	2.55	7.28	20.01	0.94
T2	240	100 Year	DonPhaseII_Final_Baseline	3.84	195.33	196.00	0.61	196.13	0.009956	2.03	4.54	17.78	0.83
T2	240	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	195.33	196.05	0.65	196.20	0.011320	2.28	5.42	18.46	0.90
T2	240	50 Year	DonPhaseII_Final_Baseline	2.93	195.33	195.95	0.55	196.06	0.009293	1.85	3.65	17.02	0.79
T2	240	100 Year	DonPhaseII_Final_Proposed	3.84	195.33	196.00	0.61	196.13	0.009956	2.03	4.54	17.78	0.83
T2	240	25 Year	DonPhaseII_Final_Baseline	2.13	195.33	195.86	0.47	195.98	0.011267	1.81	2.31	12.97	0.85
T2	240	50 Year	DonPhaseII_Final_Proposed	2.93	195.33	195.95	0.55	196.06	0.009293	1.85	3.65	17.02	0.79
T2	240	10 Year	DonPhaseII_Final_Baseline	1.56	195.33	195.77	0.38	195.90	0.014569	1.79	1.42	7.53	0.93
T2	240	25 Year	DonPhaseII_Final_Proposed	2.13	195.33	195.86	0.47	195.98	0.011267	1.81	2.31	12.97	0.85
T2	240	5 Year	DonPhaseII_Final_Baseline	1.10	195.33	195.69	0.30	195.81	0.018351	1.70	0.93	4.38	1.00
T2	240	10 Year	DonPhaseII_Final_Proposed	1.56	195.33	195.77	0.38	195.90	0.014569	1.79	1.42	7.53	0.93
T2	240	2 Year	DonPhaseII_Final_Baseline	0.56	195.33	195.59	0.20	195.68	0.020197	1.37	0.54	3.63	0.98
T2	240	5 Year	DonPhaseII_Final_Proposed	1.10	195.33	195.69	0.30	195.81	0.018351	1.70	0.93	4.38	1.00
T2	240	2 Year	DonPhaseII_Final_Proposed	0.56	195.33	195.59	0.20	195.68	0.020197	1.37	0.54	3.63	0.98
T2	199.8	Regional	DonPhaseII_Final_Baseline	51.20	194.57	197.35	2.70	197.39	0.000787	1.53	90.10	55.01	0.30
T2	199.8	Regional	DonPhaseII_Final_Proposed	51.20	194.57	197.35	2.70	197.39	0.000787	1.53	90.10	55.01	0.30
T2	199.8	350 Year	DonPhaseII_Final_Baseline	7.24	194.57	195.38	0.73	195.52	0.008098	2.05	6.34	12.26	0.77
T2	199.8	350 Year	DonPhaseII_Final_Proposed	7.24	194.57	195.38	0.73	195.52	0.008098	2.05	6.34	12.26	0.77
T2	199.8	100 Year	DonPhaseII_Final_Baseline	3.84	194.57	195.27	0.62	195.32	0.003938	1.29	5.10	10.42	0.52
T2	199.8	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	194.57	195.28	0.64	195.37	0.006104	1.63	5.26	10.54	0.65
T2	199.8	50 Year	DonPhaseII_Final_Baseline	2.93	194.57	195.17	0.52	195.22	0.004245	1.19	4.11	9.72	0.53
T2	199.8	100 Year	DonPhaseII_Final_Proposed	3.84	194.57	195.27	0.62	195.32	0.003938	1.29	5.10	10.42	0.52
T2	199.8	25 Year	DonPhaseII_Final_Baseline	2.13	194.57	195.05	0.40	195.10	0.005626	1.15	3.00	8.88	0.58
T2	199.8	50 Year	DonPhaseII_Final_Proposed	2.93	194.57	195.17	0.52	195.22	0.004245	1.19	4.11	9.72	0.53
T2	199.8	10 Year	DonPhaseII_Final_Baseline	1.56	194.57	194.99	0.35	195.03	0.005110	0.99	2.51	8.49	0.54
T2	199.8	25 Year	DonPhaseII_Final_Proposed	2.13	194.57	195.05	0.40	195.10	0.005626	1.15	3.00	8.88	0.58
T2	199.8	5 Year	DonPhaseII_Final_Baseline	1.10	194.57	194.92	0.28	194.95	0.005537	0.90	1.93	8.00	0.54
T2	199.8	10 Year	DonPhaseII_Final_Proposed	1.56	194.57	194.99	0.35	195.03	0.005110	0.99	2.51	8.49	0.54
T2	199.8	2 Year	DonPhaseII_Final_Baseline	0.56	194.57	194.82	0.20	194.84	0.005937	0.75	1.16	7.11	0.53
T2	199.8	5 Year	DonPhaseII_Final_Proposed	1.10	194.57	194.92	0.28	194.95	0.005537	0.90	1.93	8.00	0.54
T2	199.8	2 Year	DonPhaseII_Final_Proposed	0.56	194.57	194.82	0.20	194.84	0.005937	0.75	1.16	7.11	0.53
T2	161.7	Regional	DonPhaseII_Final_Baseline	51.20	194.16	197.34	3.16	197.36	0.000517	1.40	105.64	55.21	0.25
T2	161.7	Regional	DonPhaseII_Final_Proposed	51.20	194.16	197.34	3.16	197.36	0.000517	1.40	105.64	55.21	0.25
T2	161.7	350 Year	DonPhaseII_Final_Baseline	7.24	194.16	195.09	0.91	195.23	0.007237	2.27	8.80	26.24	0.76
T2	161.7	350 Year	DonPhaseII_Final_Proposed	7.24	194.16	195.09	0.91	195.23	0.007237	2.27	8.80	26.24	0.76
T2	161.7	100 Year	DonPhaseII_Final_Baseline	3.84	194.16	194.82	0.64	195.06	0.013223	2.44	3.07	12.95	0.97
T2	161.7	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	194.16	194.99	0.81	195.13	0.006695	2.04	6.46	24.51	0.72
T2	161.7	50 Year	DonPhaseII_Final_Baseline	2.93	194.16	194.73	0.55	194.94	0.013644	2.24	2.20	7.96	0.96
T2	161.7	100 Year	DonPhaseII_Final_Proposed	3.84	194.16	194.82	0.64	195.06	0.013223	2.44	3.07	12.95	0.97
T2	161.7	25 Year	DonPhaseII_Final_Baseline	2.13	194.16	194.68	0.50	194.81	0.009948	1.79	1.82	6.04	0.81
T2	161.7	50 Year	DonPhaseII_Final_Proposed	2.93	194.16	194.73	0.55	194.94	0.013644	2.24	2.20	7.96	0.96
T2	161.7	10 Year	DonPhaseII_Final_Baseline	1.56	194.16	194.55	0.37	194.71	0.015924	1.86	1.18	4.53	0.98
T2	161.7	25 Year	DonPhaseII_Final_Proposed	2.13	194.16	194.68	0.50	194.81	0.009948	1.79	1.82	6.04	0.81
T2	161.7	5 Year	DonPhaseII_Final_Baseline	1.10	194.16	194.48	0.30	194.61	0.016802	1.67	0.88	4.03	0.97
T2	161.7	10 Year	DonPhaseII_Final_Proposed	1.56	194.16	194.55	0.37	194.71	0.015924	1.86	1.18	4.53	0.98
T2	161.7	2 Year	DonPhaseII_Final_Baseline	0.56	194.16	194.38	0.20	194.47	0.019410	1.36	0.50	3.30	0.97
T2	161.7	5 Year	DonPhaseII_Final_Proposed	1.10	194.16	194.48	0.30	194.61	0.016802	1.67	0.88	4.03	0.97
T2	161.7	2 Year	DonPhaseII_Final_Proposed	0.56	194.16	194.38	0.20	194.47	0.019410	1.36	0.50	3.30	0.97
T2	74.01	Regional	DonPhaseII_Final_Baseline	51.20	193.09	197.34	4.06	197.35	0.000088	0.67	178.12	58.23	0.11
T2	74.01	Regional	DonPhaseII_Final_Proposed	51.20	193.09	197.34	4.06	197.35	0.000088	0.67	178.12	58.23	0.11
T2	74.01	350 Year	DonPhaseII_Final_Baseline	7.24	193.09	194.13	0.85	194.16	0.001322	0.92	18.25	39.34	0.32
T2	74.01	350 Year	DonPhaseII_Final_Proposed	7.24	193.09	194.13	0.85	194.16	0.001322	0.92	18.25	39.34	0.32
T2	74.01	100 Year	DonPhaseII_Final_Baseline	3.84	193.09	193.69	0.41	193.85	0.014475	1.87	2.90	17.19	0.93
T2	74.01	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	193.09	193.80	0.53	193.91	0.007716	1.61	6.16	32.38	0.71
T2	74.01	50 Year	DonPhaseII_Final_Baseline	2.93	193.09	193.65	0.37	193.78	0.012950	1.65	2.26	13.44	0.87
T2	74.01	100 Year	DonPhaseII_Final_Proposed	3.84	193.09	193.69	0.41	193.85	0.014475	1.87	2.90	17.19	0.93
T2	74.01	25 Year	DonPhaseII_Final_Baseline	2.13	193.09	193.56	0.29	193.70	0.017658	1.63	1.35	6.74	0.97
T2	74.01	50 Year	DonPhaseII_Final_Proposed	2.93	193.09	193.65	0.37	193.78	0.012950	1.65	2.26	13.44	0.87
T2	74.01	10 Year	DonPhaseII_Final_Baseline	1.56	193.09	193.64	0.36	193.68	0.004065	0.91	2.13	12.82	0.48
T2	74.01	25 Year	DonPhaseII_Final_Proposed	2.13	193.09	193.56	0.29	193.70	0.017658	1.63	1.35	6.74	0.97
T2	74.01	5 Year	DonPhaseII_Final_Baseline	1.10	193.09	193.63	0.35	193.65	0.002200	0.66	2.03	12.31	0.35
T2	74.01	10 Year	DonPhaseII_Final_Proposed	1.56	193.09	193.64	0.36	193.68	0.004065	0.91	2.13	12.82	0.48
T2	74.01	2 Year	DonPhaseII_Final_Baseline	0.56	193.09	193.50	0.24	193.51	0.002508	0.54	1.03	4.53	0.35
T2	74.01	5 Year	DonPhaseII_Final_Proposed	1.10	193.09	193.63	0.35	193.65	0.002200	0.66	2.03	12.31	0.35
T2	74.01	2 Year	DonPhaseII_Final_Proposed	0.56	193.09	193.50	0.24	193.51	0.002508	0.54	1.03	4.53	0.35

APPENDIX E: Storm Sewer Sizing

PROPOSED STORM SEWER SIZING

PROJECT #

STORM SEWER DESIGN SHEET

YORK REGION ENGINEERING

STORM DESIGN SHEET (METRIC)

Quandrant: Southern Quandrant - south of Bloomington Rd

Conc. n = 0.013, P.V.C. n = 0.013, CSP n = 0.024

Return Period (yrs): 10 i = 1 * 1331.42 / [(t+5.26)^0.84]

CODED BY: RO CHECKED BY: JD

DATE: 7/21/2023 PAGE 1 OF 1

PROJECT DESC: Teston Rd - 10yr capture

DRAINAGE AREA													OUTLET PIPE DATA							
FROM	TO	Tc min	I mm/hr	A Ha	Runoff Coeff. C	AC	Accum. AC	Q= 2.78CAI L/s	Lateral Flow L/s	Sum Lat. Flow L/s	Q total L/s	Type Pipe	Size m	L LENGTH PIPE(m)	S SLOPE %	Q L/s	V m/s	T min.	n	flow ratio
West																				
223	222	10.00	134.94	0.31	0.90	0.28	0.28	105.03		0.00	105.03	Concrete	0.375	50.0	1.24%	195.24	1.8	0.47	0.013	54%
222	221	10.47	131.53	0.21	0.90	0.19	0.47	171.86		0.00	171.86	Concrete	0.450	49.8	1.36%	332.49	2.1	0.40	0.013	52%
221	220	10.87	128.80	0.17	0.90	0.15	0.62	222.00		0.00	222.00	Concrete	0.450	50.0	1.50%	349.18	2.2	0.38	0.013	64%
220	219	11.25	126.31	0.19	0.90	0.17	0.79	277.40		0.00	277.40	Concrete	0.450	50.0	1.50%	349.18	2.2	0.38	0.013	79%
219	218	11.63	123.92	0.18	0.90	0.16	0.95	327.27		0.00	327.27	Concrete	0.525	49.9	2.00%	608.20	2.8	0.30	0.013	54%
218	217	11.92	122.12	0.19	0.90	0.17	1.12	380.25		0.00	380.25	Concrete	0.525	50.2	2.00%	608.20	2.8	0.30	0.013	63%
217	216	12.22	120.37	0.18	0.90	0.16	1.28	428.34		0.00	428.34	Concrete	0.525	50.2	2.07%	618.75	2.9	0.29	0.013	69%
216	215	12.51	118.71	0.21	0.90	0.19	1.47	485.11		0.00	485.11	Concrete	0.525	49.8	2.07%	618.75	2.9	0.29	0.013	78%
215	214	12.81	117.10	0.30	0.90	0.27	1.74	566.45		0.00	566.45	Concrete	0.525	49.6	5.00%	961.65	4.4	0.19	0.013	59%
214	213	12.99	116.10	0.20	0.90	0.18	1.92	619.69		0.00	619.69	Concrete	0.525	50.3	5.00%	961.65	4.4	0.19	0.013	64%
213	212	13.18	115.10	0.13	0.90	0.12	2.04	652.76		0.00	652.76	Concrete	0.525	36.0	5.08%	969.31	4.5	0.13	0.013	67%
212	211	13.31	114.40	0.16	0.90	0.14	2.18	693.33		0.00	693.33	Concrete	0.525	43.1	5.08%	969.31	4.5	0.16	0.013	72%
211	210	13.47	113.58	0.14	0.90	0.13	2.31	729.39		0.00	729.39	Concrete	0.600	38.8	3.71%	1182.67	4.2	0.15	0.013	62%
210	209	13.63	112.80	0.17	0.90	0.15	2.46	771.40		0.00	771.40	Concrete	0.600	40.5	3.80%	1196.93	4.2	0.16	0.013	64%
209	208	13.79	112.00	0.18	0.90	0.16	2.62	815.79		0.00	815.79	Concrete	0.600	37.4	4.05%	1235.67	4.4	0.14	0.013	66%
208	207	13.93	111.31	0.17	0.90	0.15	2.77	857.12		0.00	857.12	Concrete	0.600	28.1	4.30%	1273.24	4.5	0.10	0.013	67%
207	206	14.03	110.80	0.24	0.90	0.22	2.99	921.00		0.00	921.00	Concrete	0.600	51.1	4.24%	1264.33	4.5	0.19	0.013	73%
206	205	14.23	109.89	0.19	0.90	0.17	3.16	965.36		0.00	965.36	Concrete	0.900	34.2	0.99%	1801.24	2.8	0.20	0.013	54%
205	204	14.43	108.94	0.35	0.90	0.32	3.48	1053.97		0.00	1053.97	Concrete	0.900	61.1	0.54%	1330.30	2.1	0.49	0.013	79%
204	203	14.91	106.73	0.35	0.90	0.32	3.80	1127.52		0.00	1127.52	Concrete	0.900	35.4	0.95%	1764.47	2.8	0.21	0.013	64%
203	202	15.13	105.80	0.17	0.90	0.15	3.95	1161.74		0.00	1161.74	Concrete	0.900	46.6	0.69%	1503.76	2.4	0.33	0.013	77%
202	201	15.45	104.38	0.80	0.90	0.72	4.67	1355.19		0.00	1355.19	Concrete	0.975	30.0	0.88%	2102.29	2.8	0.18	0.013	64%
201	OUTFALL 2 (TO POND)	15.63	103.64	0.00	0.90	0.00	4.67	1345.52		0.00	1345.52	Concrete	0.975	29.3	0.97%	2207.18	3.0	0.17	0.013	61%
300	301	10.00	134.94	0.32	0.90	0.29	0.29	108.79		0.00	108.79	Concrete	0.375	49.9	1.00%	175.33	1.6	0.52	0.013	62%
301	302	10.52	131.16	0.18	0.90	0.16	0.45	164.09		0.00	164.09	Concrete	0.375	50.1	1.50%	214.73	1.9	0.43	0.013	76%
302	303	10.95	128.24	0.18	0.90	0.16	0.61	217.47		0.00	217.47	Concrete	0.375	50.0	2.20%	260.06	2.4	0.35	0.013	84%
303	304	11.31	125.94	0.19	0.90	0.17	0.78	273.08		0.00	273.08	Concrete	0.450	50.0	2.20%	422.88	2.7	0.31	0.013	65%
304	305	11.62	123.97	0.17	0.90	0.15	0.93	320.51		0.00	320.51	Concrete	0.450	50.0	2.30%	432.38	2.7	0.31	0.013	74%
305	306	11.93	122.11	0.18	0.90	0.16	1.09	370.02		0.00	370.02	Concrete	0.450	50.0	2.50%	450.79	2.8	0.29	0.013	82%
306	307	12.22	120.38	0.19	0.90	0.17	1.26	421.67		0.00	421.67	Concrete	0.525	49.7	2.50%	679.99	3.1	0.26	0.013	62%
307	308	12.48	118.88	0.17	0.90	0.15	1.41	465.98		0.00	465.98	Concrete	0.525	50.3	2.50%	679.99	3.1	0.27	0.013	69%
308	309	12.75	117.40	0.18	0.90	0.16	1.57	512.38		0.00	512.38	Concrete	0.525	50.0	2.50%	679.99	3.1	0.27	0.013	75%
309	310	13.02	115.96	0.18	0.90	0.16	1.73	557.71		0.00	557.71	Concrete	0.525	50.0	2.50%	679.99	3.1	0.27	0.013	82%
310	311	13.28	114.57	0.18	0.90	0.16	1.89	601.96		0.00	601.96	Concrete	0.525	50.0	2.80%	719.63	3.3	0.25	0.013	84%
311	312	13.53	113.28	0.18	0.90	0.16	2.05	645.60		0.00	645.60	Concrete	0.600	49.8	2.80%	1027.44	3.6	0.23	0.013	63%
SWMF2	SWMF2	13.76	112.14	0.80	0.90	0.72	2.77	863.55		0.00	863.55	Concrete	3.000	100.2	0.50%	31738.15	4.5	0.37	0.013	3%
SWMF2	313	14.13	110.33	0.00	0.90	0.00	2.77	849.62		0.00	849.62	Concrete	0.600	12.2	2.70%	1008.92	3.6	0.06	0.013	84%
313	314(OGS2)	14.19	110.06	0.00	0.90	0.00	2.77	847.53		0.00	847.53	Concrete	0.600	25.1	2.80%	1027.44	3.6	0.11	0.013	82%
314(OGS2)	**OUTFALL -03**	14.30	109.52	0.00	0.90	0.00	2.77	843.35		0.00	843.35	Concrete	0.600	23.0	2.90%	1045.62	3.7	0.10	0.013	81%
407	406	10.00	134.94	0.17	0.90	0.15	0.15	56.27		0.00	56.27	Concrete	0.300	47.7	0.80%	86.49	1.2	0.65	0.013	65%
406	405	10.65	130.29	0.18	0.90	0.16	0.31	112.29		0.00	112.29	Concrete	0.375	49.0	0.80%	156.82	1.4	0.58	0.013	72%
405	404	11.22	126.47	0.15	0.90	0.14	0.45	158.21		0.00	158.21	Concrete	0.450	48.3	1.00%	285.11	1.8	0.45	0.013	55%
404	403	11.67	123.64	0.18	0.90	0.16	0.61	209.67		0.00	209.67	Concrete	0.450	43.6	1.20%	312.32	2.0	0.37	0.013	67%
403 (SWMF 3)	SWMF 3	12.04	121.42	0.20	0.90	0.18	0.79	266.66		0.00	266.66	Concrete	3.000	34.3	0.50%	31738.15	4.5	0.13	0.013	1%
SWMF 3	401 (OGS3)	12.17	120.67	0.00	0.90	0.00	0.79	265.02	116.29	116.29	381.31	Concrete	0.450	29.0	2.50%	450.79	2.8	0.17	0.013	85%
401 (OGS3)	**OUTFALL -04**	12.34	119.69	0.00	0.90	0.00	0.79	262.86		116.29	379.15	Concrete	0.450	30.7	2.70%	468.48	2.9	0.17	0.013	81%
500	501	10.00	134.94	0.34	0.90	0.31	0.31	116.29		0.00	116.29	Concrete	0.375	50.0	0.80%	156.82	1.4	0.59	0.013	74%
501 (SWMF 4)	SWMF 4	10.59	130.73	0.24	0.90	0.22	0.53	192.61		0.00	192.61	Concrete	1.375	60.0	0.30%	991.55	1.6	0.64	0.013	19%
502	503(OGS4)	11.23	126.44	0.00	0.90	0.00	0.53	186.30		0.00	186.30	Concrete	0.375	2.8	1.90%	241.68	2.2	0.02	0.013	77%
503(OGS4)	Culvert ED02	11.25	126.30	0.00	0.90	0.00	0.53	186.10		0.00	186.10	Concrete	0.375	3.3	2.00%	247.95	2.2	0.02	0.013	75%

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PROJECT #

STORM SEWER DESIGN SHEET

East

606	605	10.00	134.94	0.19	0.90	0.17	0.17	63.77		0.00	63.77	Concrete	0.300	46.0	1.00%	96.70	1.4	0.56	0.013	66%
605	604	10.00	134.94	0.18	0.90	0.16	0.16	60.02		0.00	60.02	Concrete	0.300	48.4	3.00%	167.49	2.4	0.34	0.013	36%
604	603	10.00	134.94	0.15	0.90	0.14	0.14	52.52		0.00	52.52	Concrete	0.375	44.2	3.00%	303.68	2.7	0.27	0.013	17%
603	602	10.56	130.91	0.16	0.90	0.14	0.31	112.82		0.00	112.82	Concrete	0.375	44.4	3.00%	303.68	2.7	0.27	0.013	37%
602 (SWMF5)	601(SWMF5)	10.34	132.46	0.34	0.90	0.31	0.47	173.07		0.00	173.07	Concrete	1.500	75.4	0.30%	991.55	1.6	0.81	0.013	17%
601(SWMF5)	600(OGS5)	10.27	132.98	0.00	0.90	0.00	0.14	51.75		0.00	51.75	Concrete	0.375	4.7	0.50%	123.98	1.1	0.07	0.013	42%
600(OGS5)	Culvert ED02	10.83	129.07	0.00	0.90	0.00	0.31	111.23		0.00	111.23	Concrete	0.375	6.7	0.80%	156.82	1.4	0.08	0.013	71%
700	701	10.00	134.94	0.30	0.90	0.27	0.27	101.28		0.00	101.28	Concrete	0.300	43.8	1.60%	122.32	1.7	0.42	0.013	83%
701	702	10.91	128.54	0.20	0.90	0.18	0.49	175.09		0.00	175.09	Concrete	0.375	50.3	3.50%	328.01	3.0	0.28	0.013	53%
702	703	10.00	134.94	0.22	0.90	0.20	0.20	75.02		0.00	75.02	Concrete	0.375	50.1	3.50%	328.01	3.0	0.28	0.013	23%
703	704	10.42	131.88	0.21	0.90	0.19	0.46	168.65		0.00	168.65	Concrete	0.450	50.1	3.50%	533.38	3.4	0.25	0.013	32%
704	705	11.19	126.68	0.11	0.90	0.10	0.59	207.78		0.00	207.78	Concrete	0.450	30.0	3.50%	533.38	3.4	0.15	0.013	39%
705	706	10.28	132.88	0.13	0.90	0.12	0.32	118.21		0.00	118.21	Concrete	0.450	34.5	3.50%	533.38	3.4	0.17	0.013	22%
706	707	10.67	130.15	0.18	0.90	0.16	0.62	224.32		0.00	224.32	Concrete	0.450	46.7	3.50%	533.38	3.4	0.23	0.013	42%
707	708	11.34	125.73	0.07	0.90	0.06	0.65	227.19		0.00	227.19	Concrete	0.525	17.1	3.50%	804.57	3.7	0.08	0.013	28%
708 (SWMF6)	708A (SWMF6)	10.45	131.66	0.24	0.90	0.22	0.54	197.65		0.00	197.65	Concrete	2.000	63.7	0.24%	7458.05	2.4	0.45	0.013	3%
708A (SWMF6)	709(OGS6)	10.90	128.57	0.10	0.90	0.09	0.71	253.78		0.00	253.78	Concrete	0.525	16.7	2.20%	637.89	2.9	0.09	0.013	40%
709	Ex.STM	**12.73**	117.51	**0.20**	0.90	0.18	0.83	271.15		0.00	271.15	Concrete	0.525	9.2	2.60%	693.45	3.2	0.05	0.013	39%
711	710	10.00	134.94	0.34	0.90	0.31	1.02	382.63		0.00	382.63	Concrete	0.525	28.9	2.00%	608.20	2.8	0.17	0.013	63%
710	709	12.78	117.25	0.08	0.90	0.07	0.90	293.37		0.00	293.37	Concrete	0.525	21.4	1.20%	471.11	2.2	0.16	0.013	62%
800	801	10.00	134.94	0.45	0.90	0.41	0.41	153.80		0.00	153.80	Concrete	0.375	36.0	2.00%	247.95	2.2	0.27	0.013	62%
801	802	12.94	116.36	0.17	0.90	0.15	1.05	339.67		0.00	339.67	Concrete	0.450	40.0	2.00%	403.20	2.5	0.26	0.013	84%
802	803	10.00	134.94	0.14	0.90	0.13	0.13	48.77		0.00	48.77	Concrete	0.450	35.5	2.00%	403.20	2.5	0.23	0.013	12%
803	804	10.27	132.98	0.35	0.90	0.32	0.73	269.87		0.00	269.87	Concrete	0.525	128.2	2.00%	608.20	2.8	0.76	0.013	44%
804(SWMF7)	804(SWMF7)	13.20	114.97	0.35	0.90	0.32	1.37	437.88		0.00	437.88	Concrete	1.800	128.2	0.54%	8446.89	3.3	0.64	0.013	5%
804-A	805(OGS7)	10.23	133.23	0.00	0.90	0.00	0.13	48.15		0.00	48.15	Concrete	0.525	30.3	1.50%	526.72	2.4	0.21	0.013	9%
805(OGS7)	OUTFALL8	11.03	127.74	0.00	0.90	0.00	0.73	259.24		0.00	259.24	Concrete	0.525	11.8	1.60%	543.99	2.5	0.08	0.013	48%
906	907	10.00	134.94	0.45	0.90	0.41	0.41	153.80		0.00	153.80	Concrete	0.375	30.8	1.20%	192.06	1.7	0.30	0.013	80%
907	908	11.11	127.23	0.20	0.90	0.18	0.91	321.87		0.00	321.87	Concrete	0.450	49.8	1.80%	382.51	2.4	0.35	0.013	84%
908	909	10.00	134.94	0.11	0.90	0.10	0.10	37.51		0.00	37.51	Concrete	0.450	29.1	1.40%	337.34	2.1	0.23	0.013	11%
909	910	10.30	132.78	0.13	0.90	0.12	0.53	195.64		0.00	195.64	Concrete	0.450	29.1	1.50%	349.18	2.2	0.22	0.013	56%
910	911	11.45	125.02	0.09	0.90	0.08	0.99	344.08		0.00	344.08	Concrete	0.450	17.5	2.10%	413.16	2.6	0.11	0.013	83%
911	SWMF8	10.23	133.26	0.04	0.90	0.03	0.13	48.16		0.00	48.16	Concrete	0.450	5.5	2.00%	403.20	2.5	0.04	0.013	12%
SWMF8	SWMF8	10.52	131.22	0.26	0.90	0.23	0.76	277.24		0.00	277.24	Concrete	2.000	54.3	0.50%	10764.77	3.4	0.26	0.013	3%
SWMF8	912	11.56	124.32	0.01	0.90	0.01	1.00	345.61		0.00	345.61	Concrete	0.525	1.8	1.80%	576.99	2.7	0.01	0.013	60%
912	913	10.27	133.00	0.01	0.90	0.01	0.14	51.76		0.00	51.76	Concrete	0.525	21.1	1.72%	564.02	2.6	0.13	0.013	9%
913	OGS8	10.78	129.40	0.04	0.90	0.03	0.79	284.19		0.00	284.19	Concrete	0.525	3.4	1.60%	543.99	2.5	0.02	0.013	52%
1000	1001	10.00	134.94	0.53	0.90	0.48	0.48	180.06		0.00	180.06	Concrete	0.450	48.3	0.80%	255.01	1.6	0.50	0.013	71%
1001	1002	10.80	129.25	0.16	0.90	0.14	0.93	334.16		0.00	334.16	Concrete	0.450	39.4	2.00%	403.20	2.5	0.26	0.013	83%
1002	EXIST	10.00	134.94	0.13	0.90	0.12	0.12	45.01		0.00	45.01	Concrete	0.450	18.1	1.40%	337.34	2.1	0.14	0.013	13%
1003	1004	10.50	131.32	0.28	0.90	0.25	0.73	266.50		0.00	266.50	Concrete	0.525	50.1	1.40%	508.86	2.4	0.36	0.013	52%
1004	1005	11.06	127.52	0.13	0.90	0.12	1.05	372.24		0.00	372.24	Concrete	0.525	31.7	1.50%	526.72	2.4	0.22	0.013	71%
1101	1102	10.00	134.94	0.34	0.90	0.31	0.31	116.29		0.00	116.29	Concrete	0.375	44.1	0.80%	156.82	1.4	0.52	0.013	74%
1102	1103	11.28	126.12	0.53	0.90	0.48	1.53	536.43		0.00	536.43	Concrete	0.450	48.1	5.00%	637.52	4.0	0.20	0.013	84%

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APPENDIX F: SWM Facility Sizing

Outlet ID	Catchment ID	Storage ID	Storage Facility Type *	Storage Facility Dimensions	Provided Volume (m3)	Outlet TO	SWM Requirement					
							Water Quantity Control					Erosion Control (5mm Runoff from Inc.Imp)
							90% Runoff (6 hr total rainfall - 100 Year)	Detention Storage (m^3)		Target Release Rate L/S		
								Post to Pre VO [SCS 12HR - 15min] 100YR	Post to Unit Rate	Pre (100 Year) -	Unit Rate (100 Year)	
Outllet #1	201	-	-	-	-	Existing Storm Sewer	-		-	-	-	-
Outlet #2	202	Outlet to New Wet/Dry Pond (SWMF1)		-	-	Existing Storm Sewer	36	1095	-	163	-	3
Outlet #3	203	SWMF1	Surface Pond	Top of Pond Elev= 261.8m Bottom of Pond Elev= 259.5m	Avg (Top pf Pond Area + (Bottom of Pond Area) * Elev Dif (2.3) = 3536.25	Ditch,Then Sewer	1258		2291	704	64	89
Outlet #4.1	241	SWMF2	Underground Storage	Twin Pipe 2.55m (Diameter) x 118.2m (Length)	1207	East Don River	1465	1088	1453	132	44	103
Outlet #4.2	242	SWMF3	Underground Storage	3m (Diameter) x 34.3m (Length)	242	East Don River	333	212	358	55	10	23
Outlet #5	205	0.41 ha will be diverted to Outlet 4.2 by a new sewer. No stormwater management is required.		0.9m (Diameter) x 60m (Length)	-	Existing Storm Sewer	50	79	210	88	6	4
Outlet #6	206	SWMF 4&5	Underground Storage	TBD - Customized SWMF	TBD	Culvert	327	249	835	303	23	23
Outlet #7	271	SWMF6	Underground Storage	2.55m (Diameter) x 63.7m (Length)	325	Existing Storm Sewer	412	319	1092	471	38	29
Outlet #8.1	281	SWMF7	Underground Storge	1.8m (Diameter) x 83.9m (Length)	213	Trib of Patterson Creek	199	139	458	160	14	14
Outlet #8.2	282	SWMF8	Underground Storge	2.25m (Diameter) x 54.3m (Length)	216	Trib of Patterson Creek	235	206	666	253	19	17
Outlet #9	209	-	Underground Storge	TBD	TBD	Existing Storm Sewer	213	173	620	241	18	15
Outlet #10	210	-	Underground Storge	TBD	TBD	Culvert/Closed system	64	90	495	234	13	5

Note
SWMF4, SWMF5, and SWMF8 have cover issues and need to be corrected for the next submission
Conceptual design. the configuration and dimension are to be confirmed in detail design